virus infection in older adults. ? t s5/7/17 ? s immunoassay? ? s s1 and s2 ? s sensitivity ? s rsv or respiratory(w)syncytial File 155:MEDLINE(R) 1966-2002/Feb W4 44 (1) p71-3, ISSN 0002-8614 Journal Code: H6V 08864441 96136193 PMID: 8537595 DIALOG(R)File 155:MEDLINE(R) ? s s3 and s4 Falsey AR; McCann RM; Hall WJ; Criddle MM Document type: Journal Article Languages: ENGLISH Contract/Grant No.: 1-P60-A6-10463001, PHS Evaluation of four methods for the diagnosis of respiratory syncytial Journal of the American Geriatrics Society (UNITED STATES) Jan 1996, Department of Medicine, Rochester General Hospital, NY 14621-3095, USA \$0.37 Estimated cost this search \$0.02 TYMNET S4 34212 IMMUNOASSAY? S2 298573 SENSITIVITY \$0.37 Estimated total session cost 0.100 DialUnits \$0.35 Estimated cost File1 S3 349 S1 AND S2 S1 6545 RSV OR RESPIRATORY(W)SYNCYTIAL Set Items Description 05mar02 12:51:45 User208669 Session D1974.1 34212 S4 298573 S2 211412 RESPIRATORY 6545 S1 6616 SYNCYTIAL \$0.35 0.100 DialUnits File1 4988 RESPIRATORY(W)SYNCYTIAL 3417 RSV 60 S3 AND S4 349 S3

sensitivities with serologic analysis. DESIGN: Prospective comparative analysis. SETTING: Two adult daycenters. PATIENTS: Frail older persons attending the daycenter who developed signs or symptoms of acute respiratory illness between the months of December and February. MEASUREMENTS: Viral cultures performed by standard technique and bedside inoculation: antigen detection by indirect immunofluorescence assay (IFA) and Directigen enzyme immunoassay (EIA) on nasal brush samples; serologic analysis of acute and convalescent sera using EIA. RESULTS: RSV infection was documented by serology in 11 of 54 (20%) subjects during the study period. Bedside viral cultures were the most sensitive assay and were positive in 6/9 infections. Standard viral culture detected 5/11 cases. Both methods of rapid antigen detection were found to be insensitive, with 1/11 detected by IFA and 0/11 detected by EIA. CONCLUSION: Rapid antigen tests for the diagnosis of RSV in older persons should be used with caution.

? b 155

Record Date Created: 19960208 ? t s5/7/15 16 20 22-39 45-47 49-58

5/7/15

DIALOG(R)File 155:MEDLINE(R)

[Quick diagnosis of respiratory syncytial virus infection] Hurtigdiagnostikk av respiratorisk syncytialt virus-infeksjon.

Kanestrom A; Myrmel H

Avdeling for mikrobiologi og immunologi, Haukeland Sykehus, Bergen. Tidsskrift for den Norske laegeforening (NORWAY) May 10 1996, 116

(12) p1461-3, ISSN 0029-2001 Journal Code: VRV

Languages: NORWEGIAN

Document type: Journal Article

Record type: Completed

Respiratory syncytial virus (RSV) is a frequent cause of respiratory tract infections in children, and the infection spreads rapidly in hospitals. It is therefore important to diagnose the disease quickly. We have examined two quick tests for detecting RSV-antigen in nasopharyngeal aspirates: Directigen RSV (Becton Dickinson, MD, USA) and TestPack RSV (Abbott Laboratories, Chicago, IL, USA). Both tests are based on the enzyme immunoassay (EIA) principle. The results were compared with a method using direct immunofluorescence. When the immunofluorescence test was used as the standard, the sensitivities of Directigen and TestPack were 83 and 74%, and the specificities 84 and 100%, respectively. Both of the EIA-tests had a lower sensitivity than desired, and Directigen gave some uninterpretable results. The tests may be considered for use in small laboratories with limited facilities or as a supplement to other diagnostic methods. Record Date Created: 19960725

7/16

DIALOG(R)File 155:MEDLINE(R)

syncytial virus (RSV) infection in older adults and to compare

OBJECTIVE: To evaluate four methods of rapid diagnosis of respiratory

Record type: Completed

The laboratory evaluation of opportunistic pulmonary infections.

Shelhamer JH; Gill VJ; Quinn TC; Crawford SW; Kovacs JA; Masur H;

Annals of internal medicine (UNITED STATES) Mar 15 1996, 124 (6)

p585-99, ISSN 0003-4819 Journal Code: 5A6

Languages: ENGLISH

Document type: Consensus Development Conference; Consensus Development Conference, NIH; Journal Article; Review

Record type: Completed

early, relatively specific treatment of many potentially life-threatening appropriate specimens and tests in a given institution should allow for specificity) of these diagnostic tests. An understanding of the most diagnoses, and an understanding of the limitations (sensitivity and requires an understanding of the differential diagnosis of likely causes of and Mycobacteria species. An expeditious evaluation of pulmonary disease detection of Pneumocystis carinii and Legionella, Chlamydia, Mycoplasma, identification of Mycobacterium tuberculosis and some fungi. In the near cytomegalovirus. Molecular probes can now assist in the rapid are available for the culture and detection of various viruses, including and in urine (Legionella or Histoplasma species). Rapid-culture techniques are available for the detection of antigen in nasopharyngeal secretions facilitate the laboratory diagnosis of some of these agents. Immunoassays becomes more important. Recent microbiologic advances have helped to opportunistic infections has also grown. With an ever broader list of increased during the last decade. The spectrum of organisms causing infections. (94 Refs.) understanding of the most appropriate specimens to process for these pulmonary disease in specific immunosuppressed patient populations, an future, polymerase chain reaction-based techniques may assist in the (respiratory syncytial virus, influenza) in serum (Cryptococcus species), potential diagnosis, a specific diagnosis of the cause of pulmonary disease The patient population at risk for opportunistic pulmonary infections has

Record Date Created: 19960415

5/7/20

DIALOG(R)File 155:MEDLINE(R)

Evaluation of direct immunofluorescence, dot-blot enzyme immunoassay, and shell-vial culture for detection of respiratory syncytial virus in patients with bronchiolitis.

Reina J; Ros MJ; Del Valle JM; Blanco I; Munar M

Clinical Microbiology Service, University Hospital Son Dureta, Palma de Mallorca, Spain.

European journal of clinical microbiology & infectious diseases (GERMANY) Nov 1995, 14 (11) p1018-20, ISSN 0934-9723 Journal Code: EM5 Languages: ENGLISH

Document type: Clinical Trial; Journal Article Record type: Completed

Record Date Created: 19960801

2///22

DIALOG(R)File 155:MEDLINE(R)

Routine diagnosis of seven respiratory viruses and Mycoplasma pneumoniae by enzyme immunoassay.

Kok T; Mickan LD; Burrell CJ

Division of Medical Virology, Institute of Medical and Veterinary Science, Adelaide, Australia.

Journal of virological methods (NETHERLANDS) Dec 1994, 50 (1-3) p87-100, ISSN 0166-0934 Journal Code: HQR

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

reactions, are discussed. The assays showed an average sensitivity of 85% to obtain a uniform suspension, and interpretation of non-specific one infectious agent. Different methods for processing specimens in order samples showing absorbance values greater than the cutoff with more than antibodies confirmed the identification of the agents, in particular with respiratory syncytial virus. During the 61 month period--June 1988 to June an efficient method for the rapid diagnosis of viral and mycoplasmal and specificity of 99%, compared to virus culture. This EIA system provided parainfluenza 2, influenza B and parainfluenza I. The use of blocking followed by adenovirus, parainfluenza 3, M. pneumoniae, influenza A, by this EIA. The specimens were mainly from a paediatric population included influenza A and B, parainfluenza 1, 2 and 3, adenovirus and detection of seven respiratory viruses and M. pneumoniae. The viruses infections in a busy diagnostic laboratory. (hospitals and private physicians). RSV was the predominant virus detected 1993--17326 respiratory specimens, submitted from three states, were tested A composite EIA, using 8-well microstrips, was used for the rapid

5/7/23

Record Date Created: 19950516

DIALOG(R)File 155:MEDLINE(R)

[Virological diagnosis and treatment of respiratory syncytial virus nfections]

Diagnostic virologique et traitement des infections a virus respiratoire syncytial.

Freymuth F; Brouard J; Petitjean J; Eugene G; Vabret A; Duhamel JF; Guillois B

Laboratoire de Virologie, CHU de Caen.

La Presse medicale (FRANCE) Nov 5 1994, 23 (34) p1571-6, ISSN

0755-4982 Journal Code: PMT

Languages: FRENCH

Document type: Journal Article; Review; Review, Tutoria

Record type: Completed

corticosteroids are still under debate. Significant results have been associated signs of complications. Indications for bronchodilators and syncytial subgroup A seems to signify more severe disease. Symptomatic used to identify the subgroups A and B from 1981 to 1993, and respiratory evaluate strain sensitivity to ribavirin. Immunofluorescence has also been use in clinical practice. (59 Refs.) immunoglobulins but further evaluations are still required to precise their obtained with ribavirin and specific anti respiratory syncytial bacterial superinfection is infrequent, but may be indicated in cases with therapy. Antibiotics should not be given as a routine treatment since assistance may require hydratation, oxygenotherapy and respiratory physical detections, and than virus isolation on cell culture, which is justified to or enzymatic immunoassay is the key to rapid diagnosis. They appear as of respiratory syncytial antigens in nasal specimens by immunofluorescence months with a seasonal peak in december and january. The direct detection other respiratory virus. Respiratory syncytial epidemias last about 4 to 5 viral infections in hospitalized infants, 10 times the frequency of the about 1% of the cases. Its frequency has been estimated at 20 to 30% of the may cause severe respiratory insufficiency leading to hospitalization in satisfactory, but in nearly one half of the infants lower tract involvement often localized in the upper respiratory tract. Outcome is usually quite performant and more convenient than specific IgM antibodies or nucleic acid Respiratory syncytial virus infections occur frequently in children,

Record Date Created: 19950216

DIALOG(R)File 155:MEDLINE(R)

(RSV): potential for bedside diagnosis. Evaluation of a rapid diagnostic test for respiratory syncytial virus

University Medical College, Manhasset, NY 11021. Department of Pediatrics, North Shore University Hospital-Cornell Krilov LR; Lipson SM; Barone SR; Kaplan MH; Ciamician Z; Harkness SH

0031-4005 Journal Code: OXV Pediatrics (UNITED STATES) Jun 1994, 93 (6 Pt 1) p903-6, ISSN

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

ribavirin as well as instituting infection control measures. The Abbott can assist clinicians in decisions regarding antiviral therapy with respiratory secretions in 20 to 30 minutes without special laboratory TestPack RSV is a rapid RSV detection immunoassay that can be performed on OBJECTIVE. Rapid detection of respiratory syncytial virus (RSV) infection

> confirmation of results is important. isolation: 72%, 100%. CONCLUSION. From these data, it appears that the with negative culture (n = 18); blocking assay experiments using TestPack as defined by: isolation and DFA-positive (n = 48) and DFA testing positive and DFA testing. RESULTS. 66 of 137 (48%) specimens were positive for RSV Administration-approved TestPack RSV as well as conventional tube culture obtained from pediatric patients < 4 years of age suffering from acute fluorescent antibody (DFA) testing and TestPack RSV. METHODS. During the aliquots of the same specimen by tissue culture inoculation, direct of the TestPack RSV at bedside as compared with laboratory testing of TestPack RSV EIA in the field setting is reliable, although laboratory housestaff TestPack RSV: 92%, 93%; laboratory TestPack RSV: 97%, 98%; virus definitions, the sensitivity and specificity for the assays were: instances in which material for retesting was available. Using these RSV confirmed culture-negative DFA-positive specimens as positive in 8/8 respiratory disease were assayed by the Food and Drug equipment. The purpose of this study was to evaluate housestaff performance 1991 through 1992 RSV season, 137 nasopharyngeal aspirates or washes

Record Date Created: 19940623

DIALOG(R)File 155:MEDLINE(R)

nasopharyngeal secretions and evaluation of isolates representing different Enzyme immunoassay for respiratory syncytial virus: rapid detection in

RSV subgroups. Siqueira MM; Nascimento JP; Portes SA; Schuy W

Languages: ENGLISH

p130-3, ISSN 0887-8013 Journal Code: JLA

Journal of clinical laboratory analysis (UNITED STATES) 1993, 7 (2)

Departamento de Virologia, Fundação Oswaldo Cruz, Rio de Janeiro, Brazil.

Document type: Journal Article

Record type: Completed

representing different RSV subgroups. All were positive by EIA. positive by IFA. In 24 samples from a retrospective study, RSV positive by with acute respiratory infections. Of 31 samples positive by EIA, 25 were (EIA) in 169 samples of nasopharyngeal secretions of infants and children immunofluorescent antibody (IFA) technique and by an enzyme immunoassay The EIA was also evaluated with 111 RSV isolates in Hep2 cell cultures IFA and/or tissue culture isolation (TCI), 22 were also positive by EIA. Record Date Created: 19930702 The presence of respiratory syncytial virus (RSV) was investigated by

DIALOG(R)File 155:MEDLINE(R)

07896153 93265724 PMID: 8495589 Performance of the Kallestad Pathfinder enzyme immunoassay in the

diagnosis of respiratory syncytial virus infections.

Olsen MA; Shuck KM; Sambol AR; Bohnert VA; Henery ML

Department of Medical Microbiology, Creighton University School of Medicine, Omaha, NE 68178.

Diagnostic microbiology and infectious disease (UNITED STATES) May-Jun 1993, 16 (4) p325-9, ISSN 0732-8893 Journal Code: DMI

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

The Kallestad Pathfinder enzyme immunoassay (EIA) for the rapid detection of respiratory syncytial virus (RSV) antigen was compared with virus culture and direct fluorescent antibody (DFA) to determine the reliability of the EIA. During two consecutive winter respiratory seasons, 270 nasopharyngeal wash specimens were tested. RSV was detected in culture by the presence of cytopathic effect and/or an indirect immunofluorescence assay. The sensitivity of the Pathfinder EIA in comparison with isolation in tube culture was 72% (73 of 101) and the specificity was 99% (167 of 169). During the second year of the evaluation period, DFA was performed on all specimens. The sensitivity of the DFA compared with isolation in tube culture was 94%. This study indicates that the Pathfinder EIA is a very specific test for diagnosis of RSV infections, but lacks sensitivity in comparison with tube culture or direct immunofluorescence.

Record Date Created: 19930618

5/7/2

DIALOG(R)File 155:MEDLINE(R)

Evaluation of Abbott TestPack RSV for the diagnosis of respiratory syncytial virus infections.

Olsen MA; Shuck KM; Sambol AR

Department of Medical Microbiology, Creighton University School of Medicine, Omaha, Nebraska.

Diagnostic microbiology and infectious disease (UNITED STATES) Feb 1993, 16 (2) p105-9, ISSN 0732-8893 Journal Code: DMI

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

Abbott TestPack RSV, a 20-minute enzyme immunoassay, is available for the rapid diagnosis of respiratory syncytial virus (RSV) infections. We have compared TestPack with a "gold standard" method of virus isolation in traditional tube cultures and shell vials to determine the sensitivity and specificity of this rapid method. Respiratory specimens were collected prospectively from 402 children and assayed by the rapid antigen detection method and isolation in culture. Virus was isolated by inoculation of specimen in a total of eight tubes and 2-3 shell vials. Isolation of RSV was confirmed by characteristic cytopathic effect and immunofluorescence using monoclonal antibodies to RSV. Of the 402 specimens tested, there were

only 18 discrepant results (seven TestPack-positive, culture-negative, and 11 TestPack-negative, culture-positive specimens). The sensitivity of TestPack RSV versus culture was 93.6% (162 of 173) and the specificity was 97.0% (222 of 229). Using a very rigorous culture system, we have obtained high values for the sensitivity and specificity of TestPack RSV. This assay is an excellent method for the rapid diagnosis of RSV infections in young children.

Record Date Created: 19930512

5/7/28

DIALOG(R)File 155:MEDLINE(R)

Evaluation of three rapid enzyme immunoassays and cell culture for detection of respiratory syncytial virus.

Mendoza J; Rojas A; Navarro JM; Plata C; de la Rosa M

Servicio de Microbiologia, Hospital Regional de Especialidades Virgen de las Nieves, Granada, Spain.

European journal of clinical microbiology & infectious diseases (GERMANY) May 1992, 11 (5) p452-4, ISSN 0934-9723 Journal Code: EM5

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

Three rapid enzyme immunoassay techniques for the detection of respiratory syncytial virus antigen (Becton Dickinson Directigen RSV, Abbott RSV Testpack and Abbott RSV EIA) and cell culture were evaluated in a total of 250 nasal washings. The sensitivity and specificity were 62% and 76% respectively for Directigen, 64% and 86% for RSV Testpack, and 76% and 81% for RSV EIA, taking cell culture as the reference method. Agreement between cell culture and EIA techniques was 79% (70 positive and 128 negative results). All three EIA techniques gave positive results in 69 samples (52 positive and 17 negative in the cell culture). In 121 samples all three EIA techniques gave negative results (103 negative and 18 positive in the cell culture). Using the cell culture technique 46 strains other than respiratory syncytial virus were isolated.

Record Date Created: 19921203

5/7/29

DIALOG(R)File 155:MEDLINE(R)

Comparison of a new commercial enzyme immunoassay for rapid detection of respiratory syncytial virus.

Garea MT; Lopez JM; Perez del Molino ML; Coira A; Pardo F Servicio de Microbiologia, Hospital General de Galicia, Santiago de

European journal of clinical microbiology & infectious diseases (GERMANY) Feb 1992, 11 (2) p175-7, ISSN 0934-9723 Journal Code: EM5

Languages: ENGLISH

Compostela, Spain.

Document type: Journal Article

Record type: Completed

Two rapid methods for detection of respiratory syncytial virus in respiratory specimens were compared: direct immunofluorescence assay (DFA) with monoclonal antibody and an enzyme immunoassay (EIA) (Test-Pack RSV). Ninety-five nasopharyngeal washings and aspirates from 51 children were examined; the patients were hospitalized during a winter outbreak of RSV infection in the first trimester of 1990. A total of 41.0% and 56.8% of these samples were positive by EIA and DFA respectively. Considering only the 51 specimens collected at the onset of illness, EIA detected 72.5% positive samples and DFA detected 78.4%. In comparison with DFA, EIA was 92.5% sensitive and 100% specific for the acute phase of illness. When all the samples were taken into account, specificity was maintained but sensitivity fell to 72.2%. The results show that both methods are useful during the acute phase of the illness, when the viral load is important. However, later on in the course of the infection DFA appears to be more sensitive than EIA.

Record Date Created: 19921026

5/7/30

DIALOG(R)File 155:MEDLINE(R)

Comparison of three immunoassays for the rapid detection of bovine respiratory syncytial virus.

Lokensgard BE; Goyal SM; Krueger DA

Department of Veterinary Diagnostic Investigation, College of Veterinary Medicine, University of Minnesota, St. Paul, 55108.

Microbiologica (ITALY) Jul 1992, 15 (3) p259-64, ISSN 0391-5352

Journal Code: MXR

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

Three enzyme-linked immunosorbent assays (EIA) designed for the detection of human respiratory syncytial virus (RSV) were evaluated for the detection of bovine respiratory syncytial virus (BRSV) in bovine lungs and the results were compared with those obtained by a direct fluorescent antibody assay (DFA). The EIA tests used were Directigen EIA, Kallestad Pathfinder EIA, and Abbott RSV EIA. Homogenates of lung tissues obtained from 64 cattle that had died of respiratory disease were used; 32 were positive by DFA and 32 were negative. All EIA's varied in the amount of labor and time involved but their relative sensitivities were similar ranging between 59 and 66% when compared with DFA. The specificity of Pathfinder EIA was lower than those of the Directigen and Abbott tests. The overall agreement between the three EIA's and the DFA was 66-77% indicating that DFA is still the test of choice for detecting BRSV infection in lung tissues of cattle. Record Date Created: 19920917

5///31

DIALOG(R)File 155:MEDLINE(R)

Reliability of two new test kits for rapid diagnosis of respiratory syncytial virus infection.

Rothbarth PH; Hermus MC; Schrijnemakers P

Department of Virology, University Hospital Rotterdam, The Netherlands. Journal of clinical microbiology (UNITED STATES) Apr 1991, 29 (4) p824-6, ISSN 0095-1137 Journal Code: HSH

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

Two new rapid enzyme immunoassays (EIAs) for detecting respiratory syncytial virus (RSV), Directigen (Becton Dickinson Microbiology Systems) and TestPack (Abbott Diagnostics) were compared with virus isolation and direct immunofluorescence by using fresh specimens. The sensitivities of both EIAs were low (72 to 73%), but when initial specimens were used, TestPack had a high sensitivity (92%) in contrast to that of Directigen (76%). Because of its high sensitivity and specificity, TestPack can be used for diagnosis of RSV in acute disease.

Record Date Created: 19911015

5/1/32.

DIALOG(R)File 155:MEDLINE(R)

Culture vs direct antigen assays for detection of microbial pathogens from lower respiratory tract specimens suspected of containing the respiratory syncytial virus.

Kellogg JA

Clinical Microbiology Laboratory, York Hospital, PA 17405.

Archives of pathology & laboratory medicine (UNITED STATES) May 1991, 115 (5) p451-8, ISSN 0003-9985 Journal Code: 79Z

Languages: ENGLISH

Document type: Journal Article; Review; Review, Tutorial

Record type: Completed

Following the introduction of effective antiviral chemotherapy, rapid antigen assays have been utilized increasingly, instead of cell cultures, for detection of the respiratory syncytial virus from lower respiratory tract specimens. Because antigen assays, unlike cell culture, cannot amplify low levels of the virus to a detectable level, assay sensitivity is especially dependent on high-quality specimens. In addition, the assays are unable to detect other viruses or bacteria with which the patient may be infected. This review summarizes results from clinical studies of the performance of cell cultures and the more commonly used antigen assays, describes factors that may lead to false-positive or false-negative test results, and makes recommendations for the selection of procedures for the reliable detection of microbial pathogens from patients suspected of being

infected with respiratory syncytial virus. (134 Refs.) Record Date Created: 19910530

5/7/22

DIALOG(R)File 155:MEDLINE(R)

Dual-enzyme cascade-magnetic separation immunoassay for respiratory syncytial virus.

Vonk GP; Schram JL

Becton Dickinson Research Center, Research Triangle Park, NC 27709.

Journal of immunological methods (NETHERLANDS) Mar 1 1991, 137 (1) p133-9, ISSN 0022-1759 Journal Code: IFE

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

specificity (25/26) with respect to a microtiter ELISA procedure and specimens (nasal washes or aspirates) gave 96% sensitivity (25/26) and 96% min. The limit of detection for RSV fusion protein was found to be 1 ng or of inhibition and, hence, the amount of specifically labeled antigen. These conjugate. The esterase activity is then measured to determine the degree conjugated to monoclonal anti-RSV antibodies through the heterobifunctional blocking antibody assay. immunometric complex requires only 7 min and the total assay time is 40 methods yield an immunoassay which is rapid and sensitive. Formation of the the enzyme rabbit liver esterase (RLE) by an alkaline phosphatase-antibody dual-enzyme cascade is initiated by activation of a masked inhibitor for yielding particles of high specific activity and low background. The crosslinker sulfosuccinimidyl 4-(maleimidomethyl)cyclohexane-1-carboxylate, dual-enzyme cascade for signal generation. Magnetic particles are virus (RSV) makes use of magnetic separation and amplification by a 10(-14) mol per test. Pre-clinical evaluation of the assay with 52 clinical A new immunoassay developed for the detection of respiratory syncytial

Record Date Created: 19910503

2/7/2

DIALOG(R)File 155:MEDLINE(R)

[Evaluation of methods for the detection of syncytial respiratory virus in nasopharyngeal secretions]

Valoracion de metodos de deteccion de virus respiratorio sincitial en secreciones nasofaringeas.

Buesa FJ; Garcia-Verdu R; Pastor M; Escribano A

Departamento de Microbiologia, Facultad de Medicina, Universidad de Valencia.

Enfermedades infecciosas y microbiologia clinica (SPAIN) Feb 1990, 8 (2) p78-81, ISSN 0213-005X Journal Code: A10

Languages: SPANISH

Document type: Journal Article

Record type: Completed

The screening for respiratory syncytial virus (RSV) in nasopharyngeal secretions with enzyme immunoassay (ELISA) and indirect immunofluorescence (IIF) has been evaluated in infants and young children with acute respiratory infection. Both methods were compared with viral isolation in HEp-2 cells and the investigation of fluorescent foci in cell cultures inoculated by centrifugation. 226 samples were evaluated by IFF, 182 of which were also evaluated by ELISA while 158 were inoculated into cell cultures. 20.35% of samples were positive with IFF and 19.23% with ELISA. Isolation of RSV was obtained in 25 of the samples inoculated into HEp-2 cells (15.8%). The cytopathic effect took a mean of 5.4 days to develop. The investigation of fluorescent foci in centrifugated cultures allowed to detect 76% of positive samples 24 hours after centrifugation and 84% of positive samples 48 hours after it. Considering the viral isolation as the reference method, IIF and ELISA had a 88% and 76% sensitivity, respectively, with very similar specifities (90.2% and 91.7%).

Record Date Created: 19910801

5/7/35

DIALOG(R)File 155:MEDLINE(R)

Evaluation of the Becton Dickinson Directigen test for respiratory syncytial virus in nasopharyngeal aspirates.

Kok T; Barancek K; Burrell CJ

Division of Medical Virology, Institute of Medical and Veterinary Science, Adelaide, South Australia.

Journal of clinical microbiology (UNITED STATES) Jun 1990, 28 (6) p1458-9, ISSN 0095-1137 Journal Code: HSH

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

A premarket trial of the Becton Dickinson Directigen respiratory syncytial virus membrane-based enzyme immunoassay compared the test with virus isolation for the detection of respiratory syncytial virus in 583 nasopharyngeal aspirates. After modification, the Directigen test showed a sensitivity of 83% and a specificity of 90%. It offers the potential for an efficient bedside test--without the need for any equipment--for the diagnosis of respiratory syncytial virus infection and requires only a 0.25-ml sample volume. However, for optimum reliability, freezing-thawing of samples and access to a confirmatory test were shown to be necessary. Record Date Created: 19900912

17/36

DIALOG(R)File 155:MEDLINE(R) 07270619 90338392 PMID: 2199500

Detection of respiratory syncytial virus antigen in nasal washings by

Abbott TestPack enzyme immunoassay.

Wren CG; Bate BJ; Masters HB; Lauer BA

University of Colorado School of Medicine, Denver 80262

p1395-7, ISSN 0095-1137 Journal Code: HSH Journal of clinical microbiology (UNITED STATES) Jun 1990, 28 (6)

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

was performed by following the manufacturer's instructions. Specimens for 14 days, and isolates were confirmed by immunofluorescence. The TP EIA samples of fresh nasal washings from children with suspected RSV disease. EIAs (from Abbott Diagnostics and Kallestad Laboratories) by using split (RSV) enzyme immunoassay (EIA) with cell culture and two commercial RSV Two tubes of HEp-2 cells were inoculated and observed for cytopathic effect We compared the new Abbott TestPack (TP) respiratory syncytial virus

Kallestad Laboratories EIA. The sensitivity, specificity, positive were positive by the Abbott Diagnostics EIA, and 87 were positive by the 218 specimens, 93 were positive by culture, 105 were positive by TP EIA, 80 inhibition (blocking) assay using the TP EIA, and rabbit anti-RSV serum. Of positive by TP EIA but negative by culture were examined in a competitive

specificity, positive predictive value, and negative predictive value of the TP EIA were 92, 91, 90, and 93%, respectively. We conclude that the TP indicating that they were truly positive. The recalculated sensitivity, 81, and 93%, respectively. Of 20 apparently false-positive TP EIAs, 10 of predictive value, and negative predictive value of the TP EIA were 92, 86, 14 that were positive when retested were neutralized in the blocking assay,

EIA is easy to perform, rapid (less than 0.5 h), and accurate. Record Date Created: 19900912

DIALOG(R)File 155:MEDLINE(R)

nasopharyngeal secretion. A rapid test for detection of respiratory syncytial virus in

Hornsleth A

University of Copenhagen, Department of Clinical Virology, Denmark.

European journal of clinical microbiology & infectious diseases (GERMANY,

WEST) May 1990, 9 (5) p356-8, ISSN 0934-9723 Journal Code: EM5 Languages: ENGLISH

Document type: Journal Article

Record type: Completed

of nasopharyngeal secretion from infants and children with acute reference. Of 242 samples tested, 108 were positive by the MEIA and 123 by antibody (IF) technique using a sensitive biotin-avidin (BA) EIA as respiratory disease. The MEIA was compared with an immunofluorescent detection of respiratory syncytial virus (RSV) was evaluated using samples A new rapid membrane enzyme immunoassay (MEIA; Directigen RSV) for

> sensitive than the IF technique but less sensitive than the BA-EIA in a sensitivity of 86% and 72% for the MEIA and IF technique respectively. Of detecting RSV in nasopharyngeal secretions. technique, but 48 were positive by the MEIA. The MEIA is thus more 57 samples found to be positive by the BA-EIA, 41 were positive by the IF were positive by the BA-EIA and 43 by the IF technique. These results give the BA-EIA. Of 144 samples which were also tested by the IF technique, 57

Record Date Created: 19900830

07145494 94013376 PMID: 8408545 DIALOG(R)File 155:MEDLINE(R)

influenza A virus respiratory infections in young children Dominguez EA; Taber LH; Couch RB Comparison of rapid diagnostic techniques for respiratory syncytial and

Department of Microbiology, Baylor College of Medicine, Houston, Texas

p2286-90, ISSN 0095-1137 Journal Code: HSH Journal of clinical microbiology (UNITED STATES) Sep 1993, 31 (9)

Contract/Grant No.: NO1-AI-15103, AI, NIAID

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

required two different detection methods (IF and enzyme immunoassay) and and Flu A among infants and children who presented to a hospital clinic All the tests exhibited high specificity. Thus, optimal detection of RSV (87 and 75%) and efficiencies (94 and 94%) for RSV and Flu A, respectively specimens from 80 subjects. Of the 81 specimens, 53 (65%) yielded a virus: RSV and Flu A and Abbott TestPack for RSV). All testing was completed on 81 cells (Imagen for RSV and Flu A), indirect IF of cells (Baxter Bartels and influenza A virus (Flu A) infections. Virus isolation results were used 3-month period of concurrent epidemics of respiratory syncytial virus (RSV) acute respiratory illnesses presenting to a hospital clinic during a Dickinson [Directigen]). kits from two different companies (Baxter [Bartels Microscan] and Becton Bartels Microscan and Directigen Flu-A exhibited the highest sensitivities herpes simplex virus, and adenovirus, 2 to 4% each. Among the tests, RSV, 28%; Flu A, 25%; rhinovirus, 6%; and enterovirus, cytomegalovirus, Microscan), and enzyme immunoassay (EIA) (Becton Dickinson Directigen for these two viruses. The kits employed direct immunofluorescence (IF) of to assess the utility of commercially available rapid diagnostic kits for nasal wash-throat swab specimens collected from infants and children with We performed virus isolation tests for respiratory viruses on combined

Record Date Created: 19931102

DIALOG(R)File 155:MEDLINE(R)

New developments in the diagnosis of viral diseases

Smith TF; Wold AD; Espy MJ; Marshall WF

Division of Clinical Microbiology, Mayo Clinic and Foundation, Rochester, Minnesota.

Infectious disease clinics of North America (UNITED STATES) Jun 1993, 7 (2) p183-201, ISSN 0891-5520 Journal Code: IDC

Languages: ENGLISH

Document type: Journal Article; Review; Review, Tutoria

Record type: Completed

new dimension to the laboratory diagnosis of viral infection. (83 Refs.) does not yield isolates by conventional diagnostic techniques, has added a sequences of viruses from cerebrospinal fluid or tissue, which generally to the growing list of antiviral drugs. Amplification of nucleic acid rotavirus, influenza virus type A). In the near future, diagnostic virology minutes) detection of viral antigens (respiratory syncytial virus, the laboratory. Single-test membrane immunoassays have provided rapid (15 commercially available reagents the same day the specimen is submitted to detected directly by immunostaining of peripheral blood leukocytes with conventional tube cell cultures. Similarly, cytomegalovirus viremia can be virus), has provided results 16 to 48 hours after inoculation rather than herpesvirus (cytomegalovirus, herpes simplex virus, varicella-zoster and blood inoculated into shell vial cell cultures, particularly for laboratories will be expected to monitor viral strains for susceptibility the several days required for recognition of cytopathic effects in immediate early antigens in specimens such as bronchoalveolar lavage fluid in the laboratory diagnosis of viral infections. Immunologic detection of Record Date Created: 19930908 Major technical advances have occurred, especially in the last 5 years,

5/7/4

DIALOG(R)File 155:MEDLINE(R)

Detection of respiratory syncytial virus in clinical specimens by viral culture, direct and indirect immunofluorescence, and enzyme immunoassay.

Hughes JH; Mann DR; Hamparian VV

Department of Medical Microbiology and Immunology, College of Medicine, Ohio State University, Columbus 43210.

Journal of clinical microbiology (UNITED STATES) Mar 1988, 26 (3) p588-91, ISSN 0095-1137 Journal Code: HSH

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

We evaluated prospectively the detection of respiratory syncytial virus (RSV) by culture and by direct antigen detection using an indirect immunofluorescence assay (IFA), a direct monoclonal immunofluorescence assay (DFA), and a monoclonal enzyme immunoassay (EIA). Of 221 specimens,

culture-positive specimens.(ABSTRACT TRUNCATED AT 250 WORDS) specificity of 73 and 92% respectively, but missed 9 (27%) of 33 IFA, and EIA, positive results were obtained for 33 (36%) of the specimens were positive by DFA. For 92 specimens screened simultaneously by culture, significantly less than the mean time for RSV detection with either Flow respectively) than A549 cells, which grew only 29% of the isolates. The virus, and 17 (7.6%) contained a virus other than RSV. Overall, HEp-2 and 95 (43%) were culture positive for RSV, 4 (1.8%) contained more than one Compared with culture, the Kallestad EIA kit had a sensitivity and negative by IFA, whereas DFA missed 19% of the culture-positive specimens by IFA. Conversely, 14 (15%) of 95 RSV culture-positive specimens were culture-negative specimens, 21 (17%) were positive for RSV when determined by both culture and IFA and for 29 (32%) of the specimens by EIA. Of 126 (48%) were positive by culture, 69 (53%) were positive by IFA, and 70 (54%) tested simultaneously by culture, IFA, and DFA. Of these 129 specimens, 62 6000 cells (6.1 days) or A549 cells (6.4 days). Of 221 specimens, 129 were mean time for RSV detection with HEp-2 cells was 2.9 days. This was Flow 6000 cells grew significantly more RSV isolates (82 and 72%, Record Date Created: 19880524

04///0

DIALOG(R)File 155:MEDLINE(R)

Evaluation of clinical specimens for the presence of respiratory syncytial virus antigens using an enzyme immunoassay.

Flanders RT; Lindsay PD; Chairez R; Brawner TA; Kumar ML; Swenson PD; Bromberg K

Journal of medical virology (UNITED STATES) May 1986, 19 (1) p1-9, ISSN 0146-6615 Journal Code: 19N

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

An enzyme-linked immunoassay (EIA) was developed for the detection of respiratory syncytial virus (RSV) antigen in nasopharyngeal secretions. This assay, which employs goat and rabbit anti-RSV as the capture and detector antibodies respectively, was used in a retrospective evaluation of frozen clinical specimens from children. The EIA results were compared with those of virus isolation in cell culture and direct fluorescent antibody staining performed at the time of specimen collection. The sensitivity of the RSV EIA compared to cell culture was 91.3% (63/69) with a specificity of 96.8% (93/96). The predictive value of a positive EIA result was 95.4% and for a negative EIA result, 93.9%. The sensitivity of the RSV-EIA compared to direct FA was 91.5% (43/47) with a specificity of 96.5% (83/86). These data represent the preclinical evaluation of the Abbott RSV-EIA. This assay could prove to be a useful alternative to virus isolation or direct FA for the diagnosis of RSV infection.

Record Date Created: 19860618

5/7/47

DIALOG(R)File 155:MEDLINE(R)

Rapid detection of respiratory syncytial virus in nasopharyngeal aspirates by a commercial enzyme immunoassay.

Swenson PD; Kaplan MH

Journal of clinical microbiology (UNITED STATES) Mar 1986, 23 (3) p485-8, ISSN 0095-1137 Journal Code: HSH

Erratum in J Clin Microbiol 1986 May;23(5) 995

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

and rapid test for the detection of RSV. However, three of four specimens specificity). The EIA appears to be an acceptable and more rapid test than optimal conditions. In addition, the IFA test requires a highly trained positive by IFA and negative by virus isolation were not cultured under with commercial bovine anti-RSV serum was found to be the most sensitive which prompt inoculation of specimens is not always possible. IFA staining virus isolation for the detection of RSV, especially for laboratories in negative for 53 of 56 specimens negative by virus isolation and IFA (95% specimens positive by virus isolation or IFA (87.5% sensitivity) and acute respiratory illness showed that the RSV EIA was positive for 21 of 24 examination of 80 nasopharyngeal aspirates collected from infants with immunofluorescence (IFA) staining of exfoliated respiratory cells. Initial respiratory syncytial virus (RSV) in respiratory secretions was evaluated technologist to interpret the staining results. by comparison with both virus isolation in HEp-2 cells and indirect Record Date Created: 19860514 A commercial enzyme immunoassay (EIA) for the rapid detection of

5/7/49

DIALOG(R)File 155:MEDLINE(R)

An enzyme-linked immunosorbent assay using monoclonal antibodies for the detection of respiratory syncytial virus in clinical specimens.

Obert G; Beyer C

Laboratoire de Virologie, Faculte de Medecine, U74 de l'Inserm, Strasbourg France

Strasbourg, France.

Archives of virology (AUSTRIA) 1988, 100 (1-2) p37-49, ISSN

0304-8608 Journal Code: 8L7 Languages: ENGLISH

Document type: Journal Article

Record type: Completed

An enzyme-linked immunosorbent assay (ELISA) has been developed for the detection of respiratory syncytial virus in nasopharyngeal secretions. This assay employed as immunoreagents two monoclonal antibodies directed against two distinct epitopes of the viral nucleocapsid. One of them (RSV 4) was

used for antigen capture and the other (NC 4) was labelled with N-hydroxy-succinimide-epsilon-caproil biotin and used for antigen detection. Streptavidin biotin-peroxidase complexes were employed as amplification mode. The immunoassay was performed in 6 hours and was able to detect as little as 1 ng/ml of purified nucleocapsid. When 87 nasopharyngeal secretions were analyzed by an indirect immunofluorescence assay using commercial reagents and by the newly developed ELISA, the sensitivity and the specificity of the two assays were found to be very similar.

Record Date Created: 19880808

0///00

DIALOG(R)File 155:MEDLINE(R)

Comparison of monoclonal antibody time-resolved fluoroimmunoassay with monoclonal antibody capture-biotinylated detector enzyme immunoassay for respiratory syncytial virus and parainfluenza virus antigen detection.

Hierholzer JC; Bingham PG; Coombs RA; Johansson KH; Anderson LJ; Halonen PE

Division of Viral Diseases, Centers for Disease Control, Atlanta, Georgia 30333

Journal of clinical microbiology (UNITED STATES) Jun 1989, 27 (6) p1243-9, ISSN 0095-1137 Journal Code: HSH

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

previously reported adenovirus time-resolved fluoroimmunoassay, these tests antibody enzyme immunoassays (66 to 95%). Combined with results from a all-monoclonal antibody enzyme immunoassays (75 to 89%) or all-polyclonal culture-positive specimens and again was more sensitive than the each virus isolated over many years. The time-resolved fluoroimmunoassay specimens. The most sensitive enzyme immunoassay for parainfluenza virus with several enzyme immunoassays for the detection of respiratory syncytial fluoroimmunoassay detected type-specific antigen in 94 to 100% of 76%, respectively). For the parainfluenza viruses the time-resolved the monoclonal or polyclonal antibody enzyme immunoassay format (62 and positive by culture, which was a decidedly higher sensitivity than either detected respiratory syncytial virus antigen in 92% of the specimens respiratory illnesses and with cell culture harvests of multiple strains of tests were evaluated with nasopharyngeal aspirate specimens from bovine or rabbit detector antibodies with anti-species peroxidase. All assay was a polyclonal antibody assay with horse capture antibodies and syncytial virus and parainfluenza virus types 2 and 3 the most sensitive antibody and streptavidin-peroxidase conjugate, but for respiratory type 1 was an all-monoclonal antibody assay with biotin-labeled detector virus and parainfluenza virus type 1, 2, and 3 antigens in clinical An all-monoclonal antibody, time-resolved fluoroimmunoassay was compared

identified respiratory antigens in large numbers of clinical specimens. Record Date Created: 19890901

5/7/51

DIALOG(R)File 155:MEDLINE(R)

[Comparison between immunofluorescence and immunoenzymatic assay for the rapid diagnosis of the respiratory syncytial virus in nasopharyngeal secretions]

Comparacion entre la inmunofluorescencia y el ensayo inmunoenzimatico para el diagnostico rapido del virus respiratorio sincicial en secreciones nasofaringeas.

Chiparelli H; Russi JC; Martorell E; Arbiza JR; Canepa E; Hortal M

Departamento de Laboratorios, Ministerio de Salud Publica, Montevideo Uruguay.

Revista Argentina de microbiologia (ARGENTINA) Oct-Dec 1988, 20 (4) p201-4, ISSN 0325-7541 Journal Code: QZ8

Languages: SPANISH

Document type: Journal Article

Record type: Completed

An enzyme immunoassay, RSV-EIA Abbot, was evaluated by comparison with indirect immunofluorescence. Nasopharyngeal secretions obtained from 95 infants and young children with acute respiratory infections were examined for the presence of respiratory syncytial virus antigens with both methods. Specimens were stored at -70 degrees C before being tested by EIA. Out of 60 samples positive by indirect immunofluorescence, 46 were also positive by RSV-EIA (sensitivity 78.7%) and 34 out of 35 immunofluorescence negative specimens were negative by RSV-EIA (specificity 97.1%). Therefore, the EIA appears to be an acceptable test for the rapid detection of RSV as an alternative for indirect immunofluorescence.

Record Date Created: 19890622

5/1/5

DIALOG(R)File 155:MEDLINE(R)

Comparison of the Abbott and Ortho enzyme immunoassays and cell culture for the detection of respiratory syncytial virus in nasopharyngeal specimens.

Christensen ML; Flanders R

Department of Pathology, Northwestern University Medical School, Chicago, L.

Diagnostic microbiology and infectious disease (UNITED STATES) Apr 1988, 9 (4) p245-50, ISSN 0732-8893 Journal Code: DMI

Languages: ENGLISH

Document type: Journal Article Record type: Completed

Record type: Completed

A comparison of the Abbott Laboratories and the Ortho Diagnostic Systems

Respiratory Syncytial Virus (RSV) Enzyme Immunoassays (EIA) and HEp-2 cell culture for the detection of RSV in 81 nasopharyngeal (NP) specimens from pediatric patients with lower respiratory tract infection was carried out. The sensitivity and specificity of the Abbott test compared to confirmed infection was 92.3% and 100.0%, respectively. The sensitivity and specificity of the Ortho test was 87.5% and 80.3%, respectively. We found the Abbott EIA test to be sensitive, specific, rapid, and easy to perform. Record Date Created: 19881129

3///33

DIALOG(R)File 155:MEDLINE(R) 05566185 88257378 PMID: 3290243

Detection of respiratory syncytial virus antigen in nasopharyngeal secretions by Abbott Diagnostics enzyme immunoassay.

Masters HB; Bate BJ; Wren C; Lauer BA

Diagnostic Virology Laboratory, University of Colorado School of Medicine, Denver 80262.

Journal of clinical microbiology (UNITED STATES) Jun 1988, 26 (6) p1103-5, ISSN 0095-1137 Journal Code: HSH

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

specificity, and predictive value (positive) of the EIA versus culture, that the culture and FAT were falsely negative. The sensitivity, blocked in a competitive EIA, indicating that they were true-positives and Of 17 specimens positive by EIA but negative by culture and FAT, 9 were negative when the specimens were retested after storage at -70 degrees C. nasal washes were examined for typical cytoplasmic fluorescence of RSV by observed for cytopathic effect. Cells in the centrifuged sediments of the bronchiolitis. Fresh washings were used in all three tests. Specimens were nasopharyngeal washings from children with suspected RSV pneumonia or culture and with the indirect fluorescent-antibody test (FAT) by using the Abbott RSV antigen EIA is highly sensitive and specific. FAT, or blocking assay were 90, 94, and 95%, respectively. We conclude that by FAT, and 154 (53%) were positive by EIA. Eight borderline EIAs were all 289 specimens, 118 (41%) were positive by culture, 150 (52%) were positive the cutoff was considered borderline, and these specimens were retested. Of than the mean OD of the negative controls plus 0.1. An OD within +20% of FAT. The EIA cutoff was an optical density (OD) at 492 nm that was greater inoculated into HEp-2 cells and human embryonic lung fibroblasts and immunoassay (EIA) (Abbott Diagnostics, North Chicago, III.) with virus Record Date Created: 19880802 We compared a rapid respiratory syncytial virus (RSV) antigen enzyme

/7/54

DIALOG(R)File 155:MEDLINE(R) 05493701 90120198 PMID: 2558598

The development of a novel immunoassay amplification system and its use in viral detection.

Schulte T; Mize P; Hoke R; McLaurin D; Hopkins A; Reardon J

Recton Dickinson Research Center Research Triangle Park North Ca

Becton Dickinson Research Center, Research Triangle Park, North Carolina 27709.

Annales de biologie clinique (FRANCE) 1989, 47 (9) p535-40, ISSN 0003-3898 Journal Code: 4ZS

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

A novel amplification system has been developed for the detection of free or antibody-conjugated alkaline phosphatase. The amplification system provides a 100 fold enhancement in the detection of the enzyme, compared to direct detection with chromogenic substrates. The key to the amplification system is the dephosphorylation of a potent phosphorylated inhibitor, and the visualization of this inhibitor using a second, indicator, reaction.

This system is shown to provide increased sensitivity for immunoassays detecting either herpes simplex virus or respiratory syncytial virus in clinical samples. In addition, this general concept for amplification may be applicable to a variety of other hydrolytic enzymes, and is demonstrated for the enhanced detection of beta-galactosidase.

Record Date Created: 19900216

77/17

DIALOG(R)File 155:MEDLINE(R)

Detection of bovine respiratory syncytial virus using a heterologous antigen-capture enzyme immunoassay.

Osorio FA; Anderson GA; Sanders J; Grotelueschen D

Department of Veterinary Sciences, University of Nebraska-Lincoln 68583-0905.

Journal of veterinary diagnostic investigation (UNITED STATES) Jul 1989, 1 (3) p210-4, ISSN 1040-6387 Journal Code: A2D

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

Based on the marked antigenic similarities that exist between antigens of the human and bovine strains of respiratory syncytial virus (RSV), an enzyme immunoassay (EIA) designed to detect human RSV was used to detect bovine RSV. The commercial test kit (RSV EIA) consists of a solid phase (beads) coated with a capture antiserum prepared against the Long strain of human RSV. The RSV EIA test was compared with the method of inoculation of cell cultures and fluorescent antibody (FA) staining of lung tissue for the detection of bovine RSV. Using a cell culture-propagated stock of strain 375 of bovine RSV, the threshold of sensitivity of the EIA test for the cattle strain of RSV was determined to be less than or equal to 10(2.3) CCID50/ml. In addition, RSV EIA detected the bovine RSV in nasal samples

obtained from 3 experimentally inoculated cattle. The RSV EIA exhibited a sensitivity of greater than or equal to 80% during the period that shedding of infectious virus took place. All of the bovine RSV FA-positive lung samples (n = 37) were positive by the RSV EIA. Twenty-six of the remaining 214 bovine RSV FA-negative lung samples were positive by the RSV EIA. The RSV EIA was also used to test 137 nasal swabs obtained from cases of bovine respiratory disease. Of these, 38 tested positive by RSV EIA. All samples that tested positive by EIA were confirmed by blocking assays using hyperimmune serum anti-bovine RSV and a pool of monoclonal antibodies specific for that virus.

Record Date Created: 19910502

0///06

DIALOG(R)File 155:MEDLINE(R)

Rapid detection of respiratory syncytial virus by a biotin-enhanced immunoassay: test performance by laboratory technologists and housestaff. Subbarao EK; Dietrich MC; De Sierra TM; Black CJ; Super DM; Thomas F; Kumar ML

Department of Pediatrics, Case Western Reserve University, Cleveland Metropolitan General Hospital, OH 44109.

Pediatric infectious disease journal (UNITED STATES) Dec 1989, 8 (12) p865-9, ISSN 0891-3668 Journal Code: OXJ

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

evaluation of the test in older children may be required performs well and is easily adaptable to an office setting. Further diminished sensitivity. The TESTPACK RSV is a simple, rapid test that remained high (95%). Inclusion of older children may have resulted in tested by EIA at the bedside by housestaff and by immunofluorescence in the TESTPACK RSV as a bedside test, nasopharyngeal swabs from 49 children were was 92% and specificity was 93%. In order to assess the performance of a blocking assay. Compared with immunofluorescence the sensitivity of EIA (52%) yielded RSV in culture. Compared with culture the sensitivity of the nasopharyngeal swab specimens from infants with respiratory symptoms, 81 with virus isolation in cell culture and immunofluorescence. Of 156 virus (RSV) antigen detection (TESTPACK RSV) was prospectively compared laboratory; the sensitivity of the EIA was lower (78%) while specificity EIA was 95% and specificity was 92%; the specificity increased to 97% with Record Date Created: 19900402 A biotin-enhanced enzyme immunoassay (EIA) for respiratory syncytial

5/7/57

DIALOG(R)File 155:MEDLINE(R) 05411973 89327455 PMID: 2666434

Evaluation of the Abbott TESTPACK RSV enzyme immunoassay for detection of

respiratory syncytial virus in nasopharyngeal swab specimens. Department of Pediatrics/Adolescent Medicine, St. Louis University School Swierkosz EM; Flanders R; Melvin L; Miller JD; Kline MW

p1151-4, ISSN 0095-1137 Journal Code: HSH Journal of clinical microbiology (UNITED STATES) Jun 1989, 27 (6) of Medicine, Missouri.

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

nasopharyngeal swab specimens. reliable enzyme immunoassay for the direct detection of RSV antigen in were 88, 100, 100, and 88%, respectively. TESTPACK RSV is a rapid and predictive value, and negative predictive value of combined culture and DFA respectively. By comparison, the sensitivity, specificity, positive with those of culture, DFA, and the blocking assay were 96, 96, and 89%, predictive value, and negative predictive value of TESTPACK RSV as compared RSV detected 108 specimens (sensitivity, 89%). The specificity, positive of 122 specimens were culture, DFA, or blocking assay positive; TESTPACK negative by culture or DFA, 15 were positive by the blocking assay. A total were TESTPACK RSV positive. Of 19 specimens positive by TESTPACK RSV but were DFA positive, 107 (46%) were culture or DFA positive, and 112 (48%) for each test. Of 234 specimens, 70 (30%) were culture positive, 103 (44%) viral transport medium. Portions of specimen in transport medium were used Nasopharyngeal swab specimens, collected from 234 infants, were placed in respiratory syncytial virus (RSV) in nasopharyngeal swab specimens. immunofluorescence (DFA) of nasopharyngeal cells for the detection of a rapid (20-min) enzyme immunoassay, was compared with culture and direct Record Date Created: 1989090 The Abbott TESTPACK RSV assay (Abbott Laboratories, North Chicago, Ill.),

DIALOG(R)File 155:MEDLINE(R)

respiratory syncytial virus from nasal wash specimens. Comparison of three rapid diagnostic techniques for detection of

Chonmaitree T; Bessette-Henderson BJ; Hepler RE; Lucia HL

p746-7, ISSN 0095-1137 Journal Code: HSH Journal of clinical microbiology (UNITED STATES) Apr 1987, 25 (4)

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

technique, with a sensitivity of 93.8%. The specificities of the three nasal wash specimens. The Abbott enzyme immunoassay was the most sensitive N.J., and Abbott Laboratories, North Chicago, Ill.) were applied to 199 and two commercial enzyme immunoassays (Ortho Diagnostics, Inc., Raritan, antigen detection. An immunofluorescence assay using commercial antibody We report results of three rapid tests for respiratory syncytial virus

> reliable rapid diagnostic techniques will allow for better care of infants with severe respiratory syncytial virus infection. techniques were comparable and greater than 95%. The availability of

Record Date Created: 19870602

? t s7/7 S2 SI ? s s6 and s4 and s1 ? s pfu or cfu \$3 \$4 Set S6 16349 PFU OR CFU 298573 SENSITIVITY Items 34212 IMMUNOASSAY? 14490 CFU 34212 S4 16349 S6 6545 RSV OR RESPIRATORY(W)SYNCYTIAL 6545 S1 349 SI AND S2 1893 PFU 60 S3 AND S4 1 S6 AND S4 AND S1 Description

DIALOG(R)File 155:MEDLINE(R)

DNA-RNA hybridization. Detection of respiratory syncytial virus in nasopharyngeal secretions by

Van Dyke RB; Murphy-Corb M

Department of Pediatrics, Tulane University, New Orleans, Louisiana

p1739-43, ISSN 0095-1137 Journal Code: HSH Journal of clinical microbiology (UNITED STATES) Aug 1989, 27 (8)

Contract/Grant No.: 507RR05377, RR, NCRR

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

testing by hybridization, and 67 were tested for RSV antigens by enzyme immunofluorescence (IF). All were then frozen at -70 degrees C for later infants in New Orleans, and 73 of the samples were tested for RSV by PFU of RSV. Respiratory secretions were collected from a group of 104 sensitivity of the assay is 8.2 X 10(2) PFU of the Long strain of RSV. In throat washes with added cell-free virus, the assay can detect 3.3 X 10(3) RSV, integrated into the plasmid vector pBR322. The lower limit of to use as probe a cDNA complementary to the nucleocapsid protein gene of respiratory syncytial virus (RSV) RNA in nasopharyngeal samples. We chose We have developed an RNA-cDNA hybridization assay for the detection of

of the assay were improved with the addition of a control blot, which was specificity of 92%. With clinical samples, the sensitivity and specificity with virus isolation, hybridization assay had a sensitivity of 73% and a sensitivity of 60% and a specificity of 81% compared with EIA. Compared and a specificity of 66%. For samples tested by EIA, hybridization had a was performed, hybridization, compared with IF, had a sensitivity of 49% frozen for later testing by hybridization. For those samples on which IF in Denver were cultured for virus, assayed for RSV antigen by EIA, and then fresh clinical material rather than frozen samples. hybridization assay can be expected to improve when the assay is used with hybridized to the plasmid vector (pBR322). The performance of the immunoassay (EIA). A second set of respiratory secretions from 48 infants

Record Date Created: 19891012

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\$15.94 Estimated cost this search

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Test characteristics of the respiratory syncytial virus enzyme-linked immunoabsorbent assay in febrile infants < or = 60 days of age.

Dayan Peter; Ahmad Faiz; Urtecho Jacqueline; Novick Michael; Dixon Patricia; Levine Debbie; Miller Steven

Children's Hospital of New York, Columbia University College of Physicians and Surgeons, New York, USA.

Clinical pediatrics (United States) Jul-Aug 2002, 41 (6) p415-8, ISSN 0009-9228 Journal Code: 0372606

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: In Process

were utilized as the reference standard. The RSV Abbott Testpack EIA had a 0.26 (95% CI 0.14-0.47). Even with a negative EIA, patients with lower and 35.5 (95% CI 11.4-110.7), and a likelihood ratio for a negative test of value of 95% (95% CI 91-98%), a likelihood ratio for a positive test of a positive predictive value of 89% (95% CI 77-100%), a negative predictive sensitivity of 75% (95% CI 60-90%), a specificity of 98% (95% CI 96-100%), successive RSV seasons. Conventional tissue and shell vial viral cultures clinical syndrome and a negative or positive EIA. A prospective sample of secondary goal was to determine the likelihood of RSV given a particular months typically associated with RSV disease, a positive RSV TP indicates a tool in the detection of RSV in febrile infants but has limitations. During upper respiratory tract illness still had a 22.3% and 5.5% chance of infants with a temperature > or = 38.0 degrees C was evaluated during 2 high likelihood of illness, but clinicians should be wary of false harboring RSV, respectively. The RSV Abbott Testpack is a useful diagnostic immunoabsorbent assay (EIA) in febrile infants < or = 60 days of age. Our test characteristics of the RSV Abbott Testpack (TP) enzyme-linked (RSV) in infants may differ from older children secondary to a lower ikelihood of previous illness with RSV. Our main goal was to establish the The test characteristics of rapid tests for respiratory syncytial virus

Record Date Created: 20020808

DIALOG(R)File 155:MEDLINE(R)

6/7/3 (Item 3 from file: 155)

12542130 21417414 PMID: 11526141
Reliable detection of respiratory syncytial virus infection in children for adequate hospital infection control management.
Abels S; Nadal D; Stroehle A; Bossart W
Institute of Medical Virology, University of Zurich, Zurich, Switzerland Journal of clinical microbiology (United States) Sep 2001, 39 (9) p3135-9, ISSN 0095-1137 Journal Code: 7505564
Document type: Evaluation Studies; Journal Article
Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

additional tests to rule out false-positive results and/or detection of other respiratory viruses. its lack of specificity in some patients requires confirmation by rapid test was found to be a reasonable tool to get quick results. However, other respiratory viruses were detected. For general screening the RSV nested RT-PCR or antigen capture EIA. In these seven patients a variety of positive results of the RSV rapid test could not be confirmed by either samples and the homologous virus scrotype A. In 7 (29%) of 24 patients, the repeatedly positive results over a period of up to 10 weeks. A prospective determined by the rapid test were considered. A total of 134 specimens from enzyme immunoassay (EIA) and a nested reverse transcriptase PCR (RT-PCR) study was initiated to compare the rapid test with an antigen capture (Abbott TestPack RSV), a number of patients were observed, showing EIA to have a specificity of 96% and a sensitivity of 69% for acute-phase have a specificity of 63% and a sensitivity of 66% and the antigen capture 24 children was investigated by antigen capture EIA and nested RT-PCR. protocol for detection of RSV serotypes A and B. Only respiratory samples Using RT-PCR as the reference method, we determined the RSV rapid test to from children exhibiting the prolonged presence of RSV (> or =5 days) as By using a rapid test for respiratory syncytial virus (RSV) detection

Record Date Created: 20010829

6/7/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

Evaluation of an acute point-of-care system screening for respiratory syncytial virus infection.

Mackie P L, Joannidis P A, Beattie J

Department of Microbiology, Yorkhill NHS Trust, Glasgow, UK. virology@supanet.com

Journal of hospital infection (England) May 2001, 48 (1) p66-71, ISSN 0195-6701 Journal Code: 8007166

Document type: Journal Article; Validation Studies

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

There continues to be a significant risk of children contracting hospital-acquired infections caused by respiratory syncytial virus (RSV). In order to provide 24 h screening, we examined a point-of-care system (near-patient testing) for use by non-laboratory healthcare workers (HCWs) in a short stay unit adjoining the accident and emergency department of a large paediatric hospital. Three studies were conducted over consecutive winter epidemics, in which 2193 nasopharyngeal aspirates were obtained from children < 2 years old. An average of 23 trained HCWs tested aspirates with the Abbott TESTPACK(R) RSV assay. Material was sent to the virology laboratory for examination for RSV and other respiratory viruses by direct

immunofluorescence. The mean performance characteristics of near patient testing were sensitivity 90%, specificity 92%, positive predictive value 92% and negative predictive value 92%. This was acceptable for clinical purposes. The near-patient testing provided a rapid answer and ensured that infants could be segregated according to infection status. Early antiviral treatment could be commenced and needless antibiotics avoided. During the study the hospital-acquired infection rate was the lowest recorded, although this may have been influenced by national trends and lower rates of inpatient care for infants with bronchiolitis. Copyright 2001 The Hospital Infection Society.

Record Date Created: 20010518

6/7/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

[Quick diagnosis of respiratory syncytial virus infection]
Hurtigdiagnostikk av respiratorisk syncytialt virus-infeksjon.

Kanestrom A; Myrmel H

Avdeling for mikrobiologi og immunologi, Haukeland Sykehus, Bergen. Tidsskrift for den Norske laegeforening (NORWAY) May 10 1996, 116 (12) p1461-3, ISSN 0029-2001 Journal Code: 0413423

Document type: Journal Article; English Abstract

Languages: NORWEGIAN

Main Citation Owner: NLM

Record type: Completed

Respiratory syncytial virus (RSV) is a frequent cause of respiratory tract infections in children, and the infection spreads rapidly in hospitals. It is therefore important to diagnose the disease quickly. We have examined two quick tests for detecting RSV-antigen in nasopharyngeal aspirates: Directigen RSV (Becton Dickinson, MD, USA) and TestPack RSV (Abbott Laboratories, Chicago, IL, USA). Both tests are based on the enzyme immunoassay (EIA) principle. The results were compared with a method using direct immunofluorescence. When the immunofluorescence test was used as the standard, the sensitivities of Directigen and TestPack were 83 and 74%, and the specificities 84 and 100%, respectively. Both of the EIA-tests had a lower sensitivity than desired, and Directigen gave some uninterpretable results. The tests may be considered for use in small laboratories with limited facilities or as a supplement to other diagnostic methods. Record Date Created: 19960725

6/7/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
08651989 96028032 PMID: 7546643

Evaluation of Abbott TestPack RSV and an in-house RSV ELISA for detection of respiratory syncytial virus in respiratory tract aspirates.

Department of Virology, Statens Seruminstitut, Copenhagen, Denmark

Obel N; Andersen H K; Jensen I P; Mordhorst C H

APMIS : acta pathologica, microbiologica, et immunologica Scandinavica (DENMARK) Jun 1995, 103 (6) p416-8, ISSN 0903-4641 Journal Code:

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

negative in the Abbott TestPack RSV, one was found positive by the in-house (RSV) antigen. Nasopharyngeal specimens were obtained from 121 inpatients versus the RSV ELISA were 98% and 95% respectively. RSV ELISA. The sensitivity and specificity of the Abbott TestPack RSV these being confirmed by the in-house RSV ELISA. Of the 75 specimens tested RSV antigen was detected in 46 specimens by the Abbott TestPack, 42 of immunosorbent assay (ELISA) for detection of respiratory syncytial virus The Abbott TestPack RSV was compared with an in-house RSV enzyme-linked

Record Date Created: 19951114

DIALOG(R)File 155:MEDLINE(R) (Item 8 from file: 155)

Directigen FLU-A for diagnosis of respiratory syncytial virus and influenza Comparison of rapid immunofluorescence procedure with TestPack RSV and

Journal of clinical microbiology (UNITED STATES) Jun 1995, 33 (6) WYON Document type: Journal Additional Code: 7505564

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

clinical specimens. Rapid immunofluorescence was more sensitive than effective as conventional indirect and direct immunofluorescence procedures for detecting respiratory syncytial virus and influenza A virus antigens in A rapid immunofluorescence format requiring 20 min for completion was as

require 20 min for completion. Record Date Created: 19950922

TestPack RSV and comparable to Directigen FLU-A immunosorbent assays, which

6/7/10 (Item 10 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

Evaluation of a rapid diagnostic test for respiratory syncytial virus

(RSV): potential for bedside diagnosis.

University Medical College, Manhasset, NY 11021. Department of Pediatrics, North Shore University Hospital-Cornell Krilov L R; Lipson S M; Barone S R; Kaplan M H; Ciamician Z; Harkness S H

> 0031-4005 Journal Code: 0376422 Pediatrics (UNITED STATES) Jun 1994, 93 (6 Pt 1) p903-6, ISSN

Document type: Journal Article

Main Citation Owner: NLM Languages: ENGLISH

Record type: Completed

confirmation of results is important isolation: 72%, 100%. CONCLUSION. From these data, it appears that the housestaff TestPack RSV: 92%, 93%; laboratory TestPack RSV: 97%, 98%; virus with negative culture (n = 18), blocking assay experiments using TestPack as defined by: isolation and DFA-positive (n = 48) and DFA testing positive and DFA testing. RESULTS. 66 of 137 (48%) specimens were positive for RSV respiratory disease were assayed by the Food and Drug obtained from pediatric patients < 4 years of age suffering from acute of the TestPack RSV at bedside as compared with laboratory testing of definitions, the sensitivity and specificity for the assays were: RSV confirmed culture-negative DFA-positive specimens as positive in 8/8 Administration-approved TestPack RSV as well as conventional tube culture equipment. The purpose of this study was to evaluate housestaff performance respiratory secretions in 20 to 30 minutes without special laboratory ribavirin as well as instituting infection control measures. The Abbott can assist clinicians in decisions regarding antiviral therapy with instances in which material for retesting was available. Using these 1991 through 1992 RSV season, 137 nasopharyngeal aspirates or washes fluorescent antibody (DFA) testing and TestPack RSV. METHODS. During the aliquots of the same specimen by tissue culture inoculation, direct TestPack RSV is a rapid RSV detection immunoassay that can be performed on TestPack RSV EIA in the field setting is reliable, although laboratory OBJECTIVE. Rapid detection of respiratory syncytial virus (RSV) infection

Record Date Created: 19940623

DIALOG(R)File 155:MEDLINE(R) 6/7/11 (Item 11 from file: 155)

07875658 94013376 PMID: 8408545 influenza A virus respiratory infections in young children Comparison of rapid diagnostic techniques for respiratory syncytial and

Dominguez E A; Taber L H; Couch R B

Department of Microbiology, Baylor College of Medicine, Houston, Texas

p2286-90, ISSN 0095-1137 Journal Code: 7505564 Journal of clinical microbiology (UNITED STATES) Sep 1993, 31 (9)

Contract/Grant No.: NO1-AI-15103; AI; NIAID

Document type: Journal Article

Main Citation Owner: NLM Languages: ENGLISH

Record type: Completed

We performed virus isolation tests for respiratory viruses on combined

required two different detection methods (IF and enzyme immunoassay) and and Flu A among infants and children who presented to a hospital clinic cells (Imagen for RSV and Flu A), indirect IF of cells (Baxter Bartels nasal wash-throat swab specimens collected from infants and children with kits from two different companies (Baxter [Bartels Microscan] and Becton All the tests exhibited high specificity. Thus, optimal detection of RSV (87 and 75%) and efficiencies (94 and 94%) for RSV and Flu A, respectively Bartels Microscan and Directigen Flu-A exhibited the highest sensitivities specimens from 80 subjects. Of the 81 specimens, 53 (65%) yielded a virus: Microscan), and enzyme immunoassay (EIA) (Becton Dickinson Directigen for these two viruses. The kits employed direct immunofluorescence (IF) of to assess the utility of commercially available rapid diagnostic kits for and influenza A virus (Flu A) infections. Virus isolation results were used 3-month period of concurrent epidemics of respiratory syncytial virus (RSV) acute respiratory illnesses presenting to a hospital clinic during a Dickinson [Directigen]). herpes simplex virus, and adenovirus, 2 to 4% each. Among the tests, RSV, 28%; Flu A, 25%; rhinovirus, 6%; and enterovirus, cytomegalovirus, RSV and Flu A and Abbott TestPack for RSV). All testing was completed on 81

Record Date Created: 19931102

07750165 93273955 PMID: 8501239 DIALOG(R)File 155:MEDLINE(R) 6/7/12 (Item 12 from file: 155)

nasopharyngeal aspirates. immunofluorescence for detection of respiratory syncytial virus in Comparison of the VIDAS RSV assay and the Abbott Testpack RSV with direct

Miller H; Milk R; Diaz-Mitoma F

Ottawa, Canada. Regional Virology Laboratory, Children's Hospital of Eastern Ontario

p1336-8, ISSN 0095-1137 Journal Code: 7505564 Journal of clinical microbiology (UNITED STATES) May 1993, 31 (5)

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

advantages and drawbacks of the two assays are discussed 95.4%. The sensitivity and accuracy of Abbott Testpack RSV were 92.6 and specimens were 82.7 and 87.1%, respectively, whereas specimens previously 91.3% for fresh specimens and 86.8 and 88.1% for frozen specimens. The frozen at -70 degrees C gave a sensitivity of 96.2% and an accuracy of Record Date Created: 19930629 The sensitivity and accuracy of the VIDAS RSV assay in testing fresh

07724055 93247855 PMID: 8483627 DIALOG(R)File 155:MEDLINE(R) 6/7/13 (Item 13 from file: 155)

The Rhino-Probe nasal curette for detecting respiratory syncytial virus

p326-9, ISSN 0891-3668 Journal Code: 8701858 Pediatric infectious disease journal (UNITED STATES) Apr 1993, 12 (4) Department of Pediatrics, Naval Hospital, San Diego, CA 92134-5000. Waecker N J; Shope T R; Weber P A; Buck M L; Domingo R C; Hooper D G

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

sensitive as the NW for detection of RSV children evaluated. RSV was cultured from 14 of 15 (93%) patients by RP and curette was simple, noninvasive and relatively inexpensive, yet it was as collection techniques were compared. RSV was isolated from 15 of 26 (58%) using the NP swab. In the second outbreak the RP nasal curette and the NW curette and NP swab methods were compared. RSV was cultured from 25 of 42 nasal wash (NW). In the first outbreak isolations of RSV by the RP nasal the RP and in 6 of 15 (40%) using the NW. Like the NP swab the RP nasal the TESTPACK RSV rapid antigen test was positive in 10 of 15 (67%) using (60%) subjects using the RP nasal curette and from 20 of 42 (48%) subjects Rhino-Probe (RP) nasal curette and either a nasopharyngeal (NP) swab or a children with acute respiratory illnesses were cultured for RSV using a 13 of 15 (87%) when using NW. In the group of culture-positive subjects, During two outbreaks of respiratory syncytial virus (RSV) infection, 68

6/7/14 (Item 14 from file: 155)

Record Date Created: 19930528

DIALOG(R)File 155:MEDLINE(R)

syncytial virus infections. Evaluation of Abbott TestPack RSV for the diagnosis of respiratory

Olsen M A; Shuck K M; Sambol A R

Medicine, Omaha, Nebraska. Department of Medical Microbiology, Creighton University School of

16 (2) p105-9, ISSN 0732-8893 Journal Code: 8305899 Diagnostic microbiology and infectious disease (UNITED STATES) Feb 1993

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

specificity of this rapid method. Respiratory specimens were collected method and isolation in culture. Virus was isolated by inoculation of prospectively from 402 children and assayed by the rapid antigen detection traditional tube cultures and shell vials to determine the sensitivity and compared TestPack with a "gold standard" method of virus isolation in rapid diagnosis of respiratory syncytial virus (RSV) infections. We have Abbott TestPack RSV, a 20-minute enzyme immunoassay, is available for the

only 18 discrepant results (seven TestPack-positive, culture-negative, and using monoclonal antibodies to RSV. Of the 402 specimens tested, there were is an excellent method for the rapid diagnosis of RSV infections in young 97.0% (222 of 229). Using a very rigorous culture system, we have obtained 11 TestPack-negative, culture-positive specimens). The sensitivity of TestPack RSV versus culture was 93.6% (162 of 173) and the specificity was was confirmed by characteristic cytopathic effect and immunofluorescence specimen in a total of eight tubes and 2-3 shell vials. Isolation of RSV high values for the sensitivity and specificity of TestPack RSV. This assay

Record Date Created: 19930512

07522857 93049369 PMID: 1425717 DIALOG(R)File 155:MEDLINE(R) 6/7/15 (Item 15 from file: 155)

detection of respiratory syncytial virus. Evaluation of three rapid enzyme immunoassays and cell culture for

Mendoza J; Rojas A; Navarro J M; Plata C; de la Rosa M

las Nieves, Granada, Spain. Servicio de Microbiologia, Hospital Regional de Especialidades Virgen de

GERMANY) May 1992, 11 (5) p452-4, ISSN 0934-9723 Journal Code: official publication of the European Society of Clinical Microbiology (European journal of clinical microbiology & infectious diseases :

Languages: ENGLISH Document type: Journal Article

Main Citation Owner: NLM

Record type: Completed

Abbott RSV Testpack and Abbott RSV EIA) and cell culture were evaluated in respiratory syncytial virus antigen (Becton Dickinson Directigen RSV, Three rapid enzyme immunoassay techniques for the detection of

negative results). All three EIA techniques gave positive results in 69 81% for RSV EIA, taking cell culture as the reference method. Agreement other than respiratory syncytial virus were isolated positive in the cell culture). Using the cell culture technique 46 strains all three EIA techniques gave negative results (103 negative and 18 samples (52 positive and 17 negative in the cell culture). In 121 samples between cell culture and EIA techniques was 79% (70 positive and 128 76% respectively for Directigen, 64% and 86% for RSV Testpack, and 76% and a total of 250 nasal washings. The sensitivity and specificity were 62% and

Record Date Created: 19921203

DIALOG(R)File 155:MEDLINE(R) 6/7/17 (Item 17 from file: 155)

syncytial virus infection Reliability of two new test kits for rapid diagnosis of respiratory

Rothbarth P H; Hermus M C; Schrijnemakers P

p824-6, ISSN 0095-1137 Journal Code: 7505564 Journal of clinical microbiology (UNITED STATES) Apr 1991, 29 (4) Department of Virology, University Hospital Rotterdam, The Netherlands.

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

used for diagnosis of RSV in acute disease. syncytial virus (RSV), Directigen (Becton Dickinson Microbiology Systems) both EIAs were low (72 to 73%), but when initial specimens were used and TestPack (Abbott Diagnostics) were compared with virus isolation and (76%). Because of its high sensitivity and specificity, TestPack can be direct immunofluorescence by using fresh specimens. The sensitivities of TestPack had a high sensitivity (92%) in contrast to that of Directigen Two new rapid enzyme immunoassays (EIAs) for detecting respiratory

Record Date Created: 19911015

6/7/18 (Item 18 from file: 155)

06938063 91245004 PMID: 2037684 DIALOG(R)File 155:MEDLINE(R)

virus (RSV) (Testpack RSV and ortho RSV ELISA) with direct immunofluorescence and virus isolation for the diagnosis of pediatric RSV Comparison of two rapid methods for detection of respiratory syncytial

Thomas E E; Book L E

Columbia, Vancouver, Canada. Department of Pathology, Faculty of Medicine, University of British

p632-5, ISSN 0095-1137 Journal Code: 7505564 Journal of clinical microbiology (UNITED STATES) Mar 1991, 29 (3)

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

sensitivity was 87% and the specificity was 100%. Ortho RSV ELISA versus performance was compared with that of virus isolation and DFA, the sensitivity, 97% specificity, 96% PPV, and 93% NPV. When TestPack RSV sensitivity, 96% specificity, 93% positive predictive value (PPV), and 95% isolation and/or DFA. TestPack RSV versus virus isolation showed 91% 152 specimens were tested by TestPack RSV (Abbott), and 72 were tested by syncytial virus (RSV) in respiratory specimens was evaluated as follows: NPV. Ortho RSV ELISA versus DFA showed 91% sensitivity, 88% specificity virus isolation showed 88% sensitivity, 87% specificity, 79% PPV, and 93% negative predictive value (NPV). TestPack RSV versus DFA showed 89% isolation alone, direct immunofluorescence assay (DFA) alone, or virus Ortho RSV ELISA (Ortho). Test outcomes were compared with those of virus The ability of two commercial immunoassays to detect respiratory Record type: Completed

rapid direct detection of RSV. equipment or special skills make it an attractive alternative to DFA for was 89%, the PPV was 86%, and the NPV was 89%. The accuracy of the TestPack 81% PPV and 95% NPV. When Ortho RSV ELISA performance was compared with RSV in combination with ease of performance and no need for specialized that of virus isolation and DFA, the sensitivity was 86%, the specificity

Record Date Created: 19910628

DIALOG(R)File 155:MEDLINE(R) 6/7/19 (Item 19 from file: 155)

Abbott TestPack enzyme immunoassay. Detection of respiratory syncytial virus antigen in nasal washings by

Wren C G; Bate B J; Masters H B; Lauer B A

University of Colorado School of Medicine, Denver 80262

Journal of clinical microbiology (UNITED STATES) Jun 1990, 28 (6)

p1395-7, ISSN 0095-1137 Journal Code: 7505564

Document type: Journal Article

Main Citation Owner: NLM Languages: ENGLISH

Record type: Completed

the TP EIA were 92, 91, 90, and 93%, respectively. We conclude that the TP specificity, positive predictive value, and negative predictive value of indicating that they were truly positive. The recalculated sensitivity, were positive by the Abbott Diagnostics EIA, and 87 were positive by the 218 specimens, 93 were positive by culture, 105 were positive by TP EIA, 80 positive by TP EIA but negative by culture were examined in a competitive was performed by following the manufacturer's instructions. Specimens 81, and 93%, respectively. Of 20 apparently false-positive TP EIAs, 10 of predictive value, and negative predictive value of the TP EIA were 92, 86, Kallestad Laboratories EIA. The sensitivity, specificity, positive inhibition (blocking) assay using the TP EIA, and rabbit anti-RSV serum. Of for 14 days, and isolates were confirmed by immunofluorescence. The TP EIA samples of fresh nasal washings from children with suspected RSV disease. EIAs (from Abbott Diagnostics and Kallestad Laboratories) by using split (RSV) enzyme immunoassay (EIA) with cell culture and two commercial RSV 14 that were positive when retested were neutralized in the blocking assay, Two tubes of HEp-2 cells were inoculated and observed for cytopathic effect We compared the new Abbott TestPack (TP) respiratory syncytial virus

6/7/20 (Item 20 from file: 155)

EIA is easy to perform, rapid (less than 0.5 h), and accurate

Record Date Created: 19900912

06580780 90277802 PMID: 2191003 DIALOG(R)File 155:MEDLINE(R)

Halstead D C; Todd S; Fritch G Evaluation of five methods for respiratory syncytial virus detection.

> Center, Pennsylvania 18103. HealthEast Laboratories, Allentown Hospital-Lehigh Valley Hospital

p1021-5, ISSN 0095-1137 Journal Code: 7505564 Journal of clinical microbiology (UNITED STATES) May 1990, 28 (5)

Document type: Journal Article

Main Citation Owner: NLM

Languages: ENGLISH

Record type: Completed

offer attractive alternatives to the culture method. Technical simplicity, respectively. New self-contained EIA configurations and the DFA method and 74.6%; 93.6, 100, 100, and 93.2%; and 71.0, 100, 100, and 75.3%, specificities, and positive and negative predictive values for the three 91.7% and 91.9, 96.4, 96.6, and 91.4%, respectively. The sensitivities, obtained from 77 of 117 (65.8%) specimens were concordant for all five positive specimen; i.e., 62 of 117 (53.0%) specimens were positive. Results both. A total of 5 of 117 (4.3%) additional specimens met the criteria of a virus (RSV) and tested for RSV antigen by a direct fluorescent-antibody selecting a system for RSV detection. rapid turnaround time, performance, and cost must all be considered when EIA procedures, Directigen, TestPack, and RSV EIA, were 75.8, 80.0, 81.0, predictive values for the culture and DFA methods were 91.9, 100, 100, and methods. The sensitivities, specificities, and positive and negative (48.7%) specimens were culture positive in HEp-2 cells, A549 cells, or RSV culture were required to validate a result. A total of 57 of 117 Ill.), and RSV EIA (Abbott). Agreement of two of five methods or a positive Cockeysville, Md.), the TestPack EIA (Abbott Laboratories, North Chicago, (DFA) test (Bartels Immunodiagnostic Supplies, Inc., Bellevue, Wash.), the Directigen enzyme immunoassay (EIA; Becton Dickinson Microbiology Systems, A total of 117 nasal aspirates were cultured for respiratory syncytial

Record Date Created: 19900717

06480821 90174823 PMID: 2696927 DIALOG(R)File 155:MEDLINE(R) 6/7/21 (Item 21 from file: 155)

immunoassay: test performance by laboratory technologists and housestaff. Subbarao E K; Dietrich M C; De Sierra T M; Black C J; Super D M; Thomas F Rapid detection of respiratory syncytial virus by a biotin-enhanced

Metropolitan General Hospital, OH 44109 Department of Pediatrics, Case Western Reserve University, Cleveland

Pediatric infectious disease journal (UNITED STATES) Dec 1989, 8 (12) p865-9, ISSN 0891-3668 Journal Code: 8701858

Languages: ENGLISH Document type: Journal Article

Main Citation Owner: NLM

Record type: Completed

A biotin-enhanced enzyme immunoassay (EIA) for respiratory syncytial

a blocking assay. Compared with immunofluorescence the sensitivity of EIA evaluation of the test in older children may be required performs well and is easily adaptable to an office setting. Further diminished sensitivity. The TESTPACK RSV is a simple, rapid test that nasopharyngeal swab specimens from infants with respiratory symptoms, 81 remained high (95%). Inclusion of older children may have resulted in was 92% and specificity was 93%. In order to assess the performance of EIA was 95% and specificity was 92%; the specificity increased to 97% with with virus isolation in cell culture and immunofluorescence. Of 156 virus (RSV) antigen detection (TESTPACK RSV) was prospectively compared laboratory; the sensitivity of the EIA was lower (78%) while specificity tested by EIA at the bedside by housestaff and by immunofluorescence in the TESTPACK RSV as a bedside test, nasopharyngeal swabs from 49 children were (52%) yielded RSV in culture. Compared with culture the sensitivity of the

Record Date Created: 19900402

DIALOG(R)File 155:MEDLINE(R)

6/7/22 (Item 22 from file: 155)

respiratory syncytial virus in nasopharyngeal swab specimens Evaluation of the Abbott TESTPACK RSV enzyme immunoassay for detection of

Swierkosz E M; Flanders R; Melvin L; Miller J D; Kline M W

of Medicine, Missouri. Department of Pediatrics/Adolescent Medicine, St. Louis University School

p1151-4, ISSN 0095-1137 Journal Code: 7505564 Journal of clinical microbiology (UNITED STATES) Jun 1989, 27 (6)

QR46.565

Document type: Journal Article

Main Citation Owner: NLM Languages: ENGLISH

Record type: Completed

The Abbott TESTPACK RSV assay (Abbott Laboratories, North Chicago, Ill.),

of 122 specimens were culture, DFA, or blocking assay positive; TESTPACK negative by culture or DFA, 15 were positive by the blocking assay. A total were TESTPACK RSV positive. Of 19 specimens positive by TESTPACK RSV but were DFA positive, 107 (46%) were culture or DFA positive, and 112 (48%) viral transport medium. Portions of specimen in transport medium were used respiratory syncytial virus (RSV) in nasopharyngeal swab specimens. a rapid (20-min) enzyme immunoassay, was compared with culture and direct Nasopharyngeal swab specimens, collected from 234 infants, were placed in for each test. Of 234 specimens, 70 (30%) were culture positive, 103 (44%) immunofluorescence (DFA) of nasopharyngeal cells for the detection of

were 88, 100, 100, and 88%, respectively. TESTPACK RSV is a rapid and predictive value, and negative predictive value of combined culture and DFA respectively. By comparison, the sensitivity, specificity, positive with those of culture, DFA, and the blocking assay were 96, 96, and 89%, predictive value, and negative predictive value of TESTPACK RSV as compared RSV detected 108 specimens (sensitivity, 89%). The specificity, positive

> nasopharyngeal swab specimens. reliable enzyme immunoassay for the direct detection of RSV antigen in

Record Date Created: 19890901

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? b 155 \$0.36 Estimated cost this search \$0.01 TELNET \$0.36 Estimated total session cost 0.101 DialUnits \$0.35 Estimated cost File1 20dec02 13:00:10 User208669 Session D2177.1 \$0.35 0.101 DialUnits File1

File 155:MEDLINE(R) 1966-2002/Nov W3

*File 155: For updating information please see Help News155. Alert feature enhanced with customized scheduling. See HELP ALERT.

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\$4 \$5 \$6 \$7 894540 DT=REVIEW?

24 S3 AND S4

2244688 DETECT? OR DIAGNOS?

? t s7/7/20 23 15 16 22 53 S6 AND S3

DIALOG(R)File 155:MEDLINE(R)

Peripheral blood cytokine responses and disease severity in respiratory

syncytial virus bronchiolitis.

Bont L; Heijnen C J; Kavelaars A; van Aalderen W M; Brus F; Draaisma J T;

Geelen S M; van Vught H J; Kimpen J L University Hospital for Children and Youth Het Wilhelmina

Kinderziekenhuis, Utrecht, The Netherlands. European respiratory journal: official journal of the European Society

for Clinical Respiratory Physiology (DENMARK) Jul 1999, 14 (1) p144-9,

ISSN 0903-1936 Journal Code: 8803460 Document type: Clinical Trial; Journal Article; Multicenter Study

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

interleukin (IL)-4 production during acute illness were measured. In (PHA), lymphoproliferative responses and interferon (IFN)-gamma and patients. In whole blood cultures stimulated with phytohaemagglutinin responses in hospitalized ventilated and nonventilated RSV bronchiolitis syncytial virus (RSV) bronchiolitis is largely unknown. This study investigated the association between disease severity and systemic cytokine The role of cellular immunity in disease severity in respiratory

> requiring mechanical ventilation in young infants. explain the occurrence of severe respiratory syncytial virus bronchiolitis and elevated plasma interleukin-8 levels are markers of severe disease. It phase. In conclusion, the data indicate that depressed lymphocyte function were significantly higher than in nonventilated patients. In the almost completely undetectable. Plasma IL-8 levels in ventilated patients with nonventilated patients, the ventilated patients had significantly convalescent phase, 3-4 weeks after admission. Fifty patients were is suggested that age and maturation related immune mechanisms could investigated. This was found neither in the acute nor in the convalescent possible skewing of the T-helper (Th1/Th2) cytokine balance was bronchiolitis is associated with the subsequent development of asthma, the plasma IL-8 levels were normal in both patient groups. Since RSV convalescent phase, lymphoproliferative and cytokine responses as well as lower lymphoproliferative responses and a lower production of IFN-gamma and than in nonventilated patients (1 versus 4 months, p<0.05). In comparison included. The median age in ventilaled patients was significantly lower addition, plasma cytokines were measured. Measurements were repeated in the IL-4. In fact, IFN-gamma and IL-4 production in ventilated patients was

Record Date Created: 19991021

DIALOG(R)File 155:MEDLINE(R)

genotype of virus and to cytokine values in nasopharyngeal secretions. Hornsleth A; Klug B; Nir M; Johansen J; Hansen K S; Christensen L S; Severity of respiratory syncytial virus disease related to type and

Denmark. A.Hornsleth@immi.ku.dk Copenhagen and Department of Clinical Microbiology, Rigshospitalet, Institute of Medical Microbiology and Immunology, University of

Pediatric infectious disease journal (UNITED STATES) Dec 1998, 17

Document type: Clinical Trial; Journal Article

(12) p1114-21, ISSN 0891-3668 Journal Code: 8701858

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

restriction analysis and correlated to the severity of the disease. The RSV strains were typed and genotyped, respectively, by PCR and nucleic acid samples of nasopharyngeal secretion (NPS) have not been previously department in Copenhagen during three winter seasons, 1993, 1994 and 1995 reported. METHODS: We prospectively studied 105 RSV infections in the lower determined respectively by PCR and restriction enzyme analysis and (2) syncytial virus (RSV) disease as related to (1) RSV type and genotype respiratory tract of infants and young children admitted to a pediatric interleukin 6 (IL-6) and tumor necrosis factor alpha (TNF-alpha) values in BACKGROUND: Investigations concerning the severity of respiratory

determined by PCR, to the RSV genotype as determined by nucleic acid admitted with acute RSV infections can be correlated to the RSV type as samples of NPS was related to the severity of the disease. A high ratio was restriction analysis and to the ratio IL-6: TNF-alpha in NPS related to a low severity. CONCLUSIONS: The severity of disease in patients decreased during the following 3 to 4 weeks. The IL-6:TNF-alpha ratio in detected in samples taken 1 to 2 days after the onset of illness. Whereas to 11 months old. Increased serum concentrations of IL-6 and TNF-alpha were infants 0 to 5 months old, but not in older age groups. Type B genotype on a chest radiograph. This difference was age-related. It was observed in hospital stay, use of respiratory support and the presence of an infiltrate disease than did type A infections, as assessed on the length of the after the onset of illness. RESULTS: Type B infections produced more severe and of TNF-alpha were determined in serum samples taken during 5 weeks of NPS, was related to the severity of the disease. Concentrations of IL-6 B1122 produced more severe disease than type A genotype A2311 in infants 0 ratio IL-6: TNF-alpha, determined from IL-6- and TNF-alpha values in samples TNF-alpha serum concentrations remained high, IL-6 serum concentrations Record Date Created: 19990318

DIALOG(R)File 155:MEDLINE(R)

syncytial virus infection regardless of clinical severity. Type 1-like immune response is found in children with respiratory

Swart R L; Neijens H J; Fokkens W; Osterhaus A D Brandenburg A H; Kleinjan A; van Het Land B; Moll H A; Timmerman H H; de

ISSN 0146-6615 Journal Code: 7705876 Institute of Virology, Erasmus University Rotterdam, The Netherlands Journal of medical virology (UNITED STATES) Oct 2000, 62 (2) p267-77

Document type: Journal Article

Languages: ENGLISH

Record type: Completed

Main Citation Owner: NLM

that only low levels of IL-4 and IL-10 were detectable. Collectively these severity, the responses were dominated by the production of IFN-gamma, and intracellular and secreted cytokines showed that, irrespective of clinical cultures established from peripheral blood mononuclear cells, for positive cells were found sporadically. Analyses of RSV stimulated T cell granulocytes and monocytes. Eosinophils, IgE positive cells and tryptase in nasopharyngeal washings consisted mainly of polymorphonuclear differentiating between Type 1 and Type 2 responses. Cellular infiltrates significant differences were found in the levels of cytokines levels in the plasma samples of more severely ill patients and no clinical severity. IL-6 and IL-8 were found more frequently and at higher infection with respiratory syncytial virus (RSV) was studied in relation to The immunological response of infants younger than six months to

> 2-like T cell response. Copyright 2000 Wiley-Liss, Inc. data do not indicate an association between clinical severity and a Type Record Date Created: 20001101

DIALOG(R)File 155:MEDLINE(R) 10888440 20414316 PMID: 10959758

cytokines, chemokines and asthma. Immunology of respiratory syncytial virus infection: eosinophils,

Welliver R C

Children's Hospital of Buffalo, USA. rwelliver@upa.chob.edu Department of Pediatrics, State University of New York at Buffalo and

p780-3; discussion 784-5; 811-3, ISSN 0891-3668 Journal Code: 8701858 Pediatric infectious disease journal (UNITED STATES) Aug 2000, 19 (8)

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH Main Citation Owner: NLM

Record type: Completed

Record Date Created: 20001221

DIALOG(R)File 155:MEDLINE(R)

secretions of children with respiratory syncytial virus disease. Elevated cytokine concentrations in the nasopharyngeal and tracheal

Sheeran P; Jafri H; Carubelli C; Saavedra J; Johnson C; Krisher K;

Sanchez P J; Ramilo O

Center, Dallas, USA. Department of Pediatrics, University of Texas Southwestern Medical

p115-22, ISSN 0891-3668 Journal Code: 8701858 Pediatric infectious disease journal (UNITED STATES) Feb 1999, 18 (2)

Document type: Journal Article

Languages: ENGLISH

Record type: Completed Main Citation Owner: NLM

cytokines in respiratory secretions correlate with white blood cell (WBC) the 1996 to 1997 RSV season, we studied prospectively 14 intubated and 14 counts and RSV concentrations and with disease severity. METHODS: During macrophage-inflammatory protein-1-alpha (MIP-1-alpha), interleukin (IL)-6, activation, normal T cell expressed and presumably secreted), mediators in the pathogenesis of RSV disease is not well-understood. The RSV infection and (2) to assess whether the concentrations of these IL-8 and IL-10 can be detected in respiratory secretions of children with present study was designed (1) to determine whether RANTES (regulated on lower respiratory tract disease in infants. The role of inflammatory BACKGROUND: Respiratory syncytial virus (RSV) is the most common cause of

with NW cytokine concentrations. Among children with RSV infection concentrations. NW RSV concentrations correlated with NW WBC counts and severity. CONCLUSION: The presence of cytokines in NW and TA samples of concentrations inversely correlated with clinical markers of RSV disease concentrations than intubated patients. TA RANTES, IL-8 and IL-10 nonintubated patients had greater NW WBC counts and NW RANTES significantly correlated with TA IL-6, IL-8, IL-10 and MIP-1-alpha elective surgery served as controls. All samples were analyzed for: (1) WBC and differential counts; (2) concentrations of RANTES, MIP-1-alpha, IL-6, patients on hospital days 1 and 3. Seven healthy children undergoing RANTES, IL-6, IL-8 and IL-10 concentrations, whereas TA WBC counts from control children. NW WBC counts significantly correlated with NW RSV infection were significantly greater than those in samples obtained concentrations of these cytokines in samples obtained from children with in NW and TA samples from all children with RSV infection. The patients. RESULTS: RANTES, MIP-1-alpha, IL-6, IL-8 and IL-10 were detected IL-8 and IL-10; and (3) quantitative RSV cultures, except in control Hospital Days 1, 3 and 5. NW samples were obtained from nonintubated tracheal aspirate (TA) samples were obtained from intubated patients on nonintubated children hospitalized with RSV disease. Nasal wash (NW) and

Record Date Created: 19990706

immunomodulation of RSV disease.

children with RSV infection suggests that they have a role in mediating the

respiratory tract inflammation induced by RSV. These observations could

have implications for designing new therapeutic strategies directed at

? log hold

20dec02 13:08:40 User208669 Session D2177.2

\$5.87 1.834 DialUnits File 155

\$0.00 77 Type(s) in Format 6

\$1.05 5 Type(s) in Format 7

\$1.05 82 Types

\$6.92 Estimated cost File155

\$1.95 TELNET

\$8.87 Estimated cost this search

\$9.23 Estimated total session cost 1.936 DialUnits

Logoff: level 02.11.17 D 13:08:40

polymers. The performance of immunochromatographic systems is discussed phases such as restricted access materials or molecularly imprinted assays, flow-injection immunoassays, miniaturized techniques and stationary extraction, immunoaffinity chromatography, immunochemical detectors conjunction with instrumental methods, such as chromatography, have not immunoblotting, receptor assays, enzyme inhibition assays, displacement which might be useful for such systems, including immunoaffinity implemented and potential options for such coupled systems or components gained widespread acceptance. This review critically discusses many of the Nevertheless, the use of biochemical methods, such as immunoassays, in ? s dt=review? Germany. michael.weller@ch.tum.de DIALOG(R)File 155:MEDLINE(R) ?1 s3/7/2 ? s immunochromatog? feature enhanced with customized scheduling. See HELP ALERT. *File 155: For updating information please see Help News155. Alert File 155:MEDLINE(R) 1966-2002/Nov W3 ? s s1 and s2 11105324 21117418 PMID: 11225775 Hyphenated techniques have become very popular during the last decade Record type: Completed Languages: ENGLISH Main Citation Owner: NLM (6-7) p635-45, ISSN 0937-0633 Journal Code: 9114077 Weller M G Document type: Journal Article; Review; Review, Tutorial Fresenius' journal of analytical chemistry (Germany) Mar-Apr 2000, 366 Institute of Hydrochemistry, Technical University of Munich, Munchen, Immunochromatographic techniques--a critical review \$0.28 Estimated cost this search \$0.27 Estimated cost File1 S2 894540 DT=REVIEW? S1 318 IMMUNOCHROMATOG? \$0.28 Estimated total session cost 0.078 DialUnits Set Items Description 894540 S2 \$0.27 0.078 DialUnits File1 318 S1 7 S1 AND S2

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? t s7/7/20
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                                                                                                                                                                                                                                                                                                                                                             problems. (96 Refs.)
                                                                                                                                                                                                                                                                                                                                                                                 regarding their ability to solve highly complex and demanding analytical
DIALOG(R)File 155:MEDLINE(R)
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                                                                                                                                                                               487393 S5
                                                                  40 LATERAL(W)S4
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? b 155

19dec02 14:47:02 User208669 Session D2176.1

Ketema F; Zeh C; Edelman D C; Saville R; Constantine N T
Department of Pathology, University of Maryland School of Medicine,
Baltimore, Maryland, USA. ketema@umbi.umd.edu
Journal of acquired immune deficiency syndromes (1999) (United States)
May 1 2001, 27 (1) p63-70, ISSN 1525-4135 Journal Code: 100892005
Document type: Evaluation Studies; Journal Article
Languages: ENGLISH

detection of antibodies to HIV.

Assessment of the performance of a rapid, lateral flow assay for the

Main Citation Owner: NLM

Record type: Completed

instrumentation. in developing countries where facilities may not support the use of test for the detection of HIV infection that could be particularly useful ELISAs in all five panels. We conclude that this rapid assay is a suitable infection at the same time as the most sensitive ELISA in two of five FDA-licensed enzyme-linked immunosorbent assays (ELISAs), detecting Moreover, its analytical sensitivity was found to be better than most a near-perfect sensitivity (99.2%) and an excellent specificity (99.9%). confirmatory assay were used as reference tests. The rapid assay exhibited and Drug Administration (FDA)-licensed screening assays and a FDA-licensed serum or plasma samples from various risk groups and geographic locations, seroconversion panels, and at the same time or earlier than four of five including HIV-1 and HIV-2 positive sera from five countries. Two U.S. Food individuals, to allow intervention strategies in a clinically relevant time frame. A rapid, lateral flow, HIV-1/2/O assay was evaluated using 2,000 for various testing situations, including early identification of infected Rapid HIV assays have recently been shown to have important applications

? s diagnostic and immunochromatog? >>>"D" command not valid in DIALINDEX. ? diagnostic and immunochromatog? ? sf allscience ? s (application or detection)(w)zone Your SELECT statement is: *** format unless you enter the SET DETAIL ON command. *** *** DIALINDEX search results display in an abbreviated *** DIALINDEX(R) File 411:DIALINDEX(R) s diagnostic and immunochromatog? Record Date Created: 20010613 (c) 2002 The Dialog Corporation plc (To see banners, use SHOW FILES command) You have 247 files in your file list. \$7.05 Estimated total session cost 1.521 DialUnits \$6.77 Estimated cost this search \$1.73 TELNET \$5.04 Estimated cost File155 19dec02 14:54:08 User208669 Session D2176.2 Items File 245066 DETECTION 47027 ZONE 195403 APPLICATION \$0.42 79 Types 130 \$4.62 1.442 DialUnits File155 6 \$0.42 2 Type(s) in Format 7 \$0.00 77 Type(s) in Format 6 30 (APPLICATION OR DETECTION)(W)ZONE 98: General Sci Abs/Full-Text_1984-2002/Nov 95: TEME-Technology & Management_1989-2002/Dec W2 65: Inside Conferences_1993-2002/Dec W3 47: Gale Group Magazine DB(TM)_1959-2002/Dec 16 9: Business & Industry(R)_Jul/1994-2002/Dec 18 20: Dialog Global Reporter_1997-2002/Dec 19 42: Pharmaceuticl News Idx_1974-2002/Dec W3 19: Chem.Industry Notes_1974-2002/ISS 200252 94: JICST-EPlus_1985-2002/Oct W2 10: AGRICOLA_70-2002/Dec 50: CAB Abstracts_1972-2002/Nov 34: SciSearch(R) Cited Ref Sci_1990-2002/Dec W4 16: Gale Group PROMT(R)_1990-2002/Dec 19 73: EMBASE_1974-2002/Dec W3 71: ELSEVIER BIOBASE_1994-2002/Dec W3 5: Biosis Previews(R)_1969-2002/Dec W3

Examined 150 files

382 349: PCT FULLTEXT_1979-2002/UB=20021212,UT=20021205

89 348: EUROPEAN PATENTS_1978-2002/Dec W02

1 347: JAPIO_Oct 1976-2002/Aug(Updated 021203)

17 340: CLAIMS(R)/US Patent_1950-02/Dec 12

319: Chem Bus NewsBase_1984-2002/Dec 19

305: Analytical Abstracts_1980-2002/Dec W2

292: GEOBASE(TM)_1980-2002/Dec

266: FEDRIP_2002/Nov

285: BioBusiness(R)_1985-1998/Aug W1

286: Biocommerce Abs. & Dir. 1981-2002/Nov B2

105 440: Current Contents Search(R)_1990-2002/Dec 19

388: PEDS: Defense Program Summaries_1999/May 399: CA SEARCH(R)_1967-2002/UD=13725

371: French Patents_1961-2002/BOPI 200209

357: Derwent Biotech Res.__1982-2002/Dec W3

442: AMA Journals_1982-2002/Jan B1

449: IMS Company Profiles_1992-2002/Jan

484: Periodical Abs Plustext_1986-2002/Dec W3

444: New England Journal of Med. 1985-2002/Dec W4

Examined 200 files

6 610: Business Wire_1999-2002/Dec 19

249 654: US PAT.FULL_1976-2002/Dec 17

11 763: Freedoma Market Res._1990-2002/Nov

764: BCC Market Research_1989-2002/Nov

16 649: Gale Group Newswire ASAP(TM)_2002/Dec 12

621: Gale Group New Prod. Annou. (R)_1985-2002/Dec 18

636: Gale Group Newsletter DB(TM)_1987-2002/Dec 19

Examined 100 files	Exa
1 203: AGRIS_1974-2002/Nov	
4 198: Health Devices Alerts(R)_1977-2002/Dec W4	
3 192: Industry Trends & Anal. 1997/Jun	
9 187: F-D-C Reports_1987-2002/Dec W2	
4 185: Zoological Record Online(R)_1978-2002/Dec	
1 180: Federal Register_1985-2002/Dec 19	
6 172: EMBASE Alert_2002/Dec W3	
2 167: Medical Device Register (R)_1999	
2 158: DIOGENES(R)_1976-2002/Dec W3	
8 156: ToxFile_1965-2002/Nov W3	
122 155: MEDLINE(R)_1966-2002/Nov W3	
27 149: TGG Health&Wellness DB(SM)_1976-2002/Dec W1	
26 148: Gale Group Trade & Industry DB_1976-2002/Dec 18	
103 144: Pascal_1973-2002/Dec W3	
19 129: PHIND(Archival)_1980-2002/Dec W3	
1 111: TGG Natl.Newspaper Index(SM)_1979-2002/Dec 13	
1 103: Energy SciTec_1974-2002/Dec B1	
Examined 50 files	Exa

? s diagnostic and immunochromatog? and virus Your last SELECT statement was s diagnostic and immunochromatog? and virus S DIAGNOSTIC AND IMMUNOCHROMATOG? 63 files have one or more items; file list includes 247 files 63 files have one or more items; file list includes 247 files - Enter P or PAGE for more -129: PHIND(Archival)_1980-2002/Dec W3 149: TGG Health&Wellness DB(SM)_1976-2002/Dec W1 155: MEDLINE(R)_1966-2002/Nov W3 148: Gale Group Trade & Industry DB_1976-2002/Dec 18 144: Pascal_1973-2002/Dec W3 98: General Sci Abs/Full-Text_1984-2002/Nov 813: PR Newswire_1987-1999/Apr 30 810: Business Wire_1986-1999/Feb 28 767: Frost & Sullivan Market Eng_2002/Dec 156: ToxFile_1965-2002/Nov W3 20: Dialog Global Reporter_1997-2002/Dec 19 765: Frost & Sullivan_1992-1999/Apr 16: Gale Group PROMT(R)_1990-2002/Dec 19 94: JICST-EPlus_1985-2002/Oct W2 73: EMBASE_1974-2002/Dec W3 71: ELSEVIER BIOBASE_1994-2002/Dec W3 50: CAB Abstracts_1972-2002/Nov 34: SciSearch(R) Cited Ref Sci_1990-2002/Dec W4 9: Business & Industry(R)_Jul/1994-2002/Dec 18 5: Biosis Previews(R)_1969-2002/Dec W3 348: EUROPEAN PATENTS_1978-2002/Dec W02 50: CAB Abstracts_1972-2002/Nov 144: Pascal_1973-2002/Dec W3 440: Current Contents Search(R)_1990-2002/Dec 19 654: US PAT.FULL_1976-2002/Dec 17 349: PCT FULLTEXT_1979-2002/UB=20021212,UT=20021205 34: SciSearch(R) Cited Ref Sci_1990-2002/Dec W4 73: EMBASE_1974-2002/Dec W3 155: MEDLINE(R)_1966-2002/Nov W3 5: Biosis Previews(R)_1969-2002/Dec W3 ? s (vertical or lateral)(w)flow and diagnostic and virus Your SELECT statement is: Temp SearchSave "TD785" stored s (vertical or lateral)(w)flow and diagnostic and virus 36 files have one or more items; file list includes 247 files Examined 50 files Examined 200 files Examined 150 files Examined 100 files 253 349: PCT FULLTEXT_1979-2002/UB=20021212,UT=20021205 111 654: US PAT.FULL_1976-2002/Dec 17 11 636: Gale Group Newsletter DB(TM)_1987-2002/Dec 19 44 440: Current Contents Search(R)_1990-2002/Dec 19 2 649: Gale Group Newswire ASAP(TM)_2002/Dec 12 1 399: CA SEARCH(R)_1967-2002/UD=13725 621: Gale Group New Prod.Annou.(R)_1985-2002/Dec 18 610: Business Wire_1999-2002/Dec 19 763: Freedonia Market Res._1990-2002/Nov 484: Periodical Abs Plustext_1986-2002/Dec W3 180: Federal Register_1985-2002/Dec 19 442: AMA Journals_1982-2002/Jan B1 286: Biocommerce Abs.& Dir._1981-2002/Nov B2 211: Gale Group Newsearch(TM)_2002/Dec 18 155: MEDLINE(R)_1966-2002/Nov W3 149: TGG Health&Wellness DB(SM)_1976-2002/Dec W1 348: EUROPEAN PATENTS_1978-2002/Dec W02 340: CLAIMS(R)/US Patent_1950-02/Dec 12 129: PHIND(Archival)_1980-2002/Dec W3 203: AGRIS_1974-2002/Nov 198: Health Devices Alerts(R)_1977-2002/Dec W4 187: F-D-C Reports_1987-2002/Dec W2 172: EMBASE Alert_2002/Dec W3 148: Gale Group Trade & Industry DB_1976-2002/Dec 18 50: CAB Abstracts_1972-2002/Nov 34: SciSearch(R) Cited Ref Sci_1990-2002/Dec W4 192: Industry Trends & Anal_1997/Jun 180: Federal Register_1985-2002/Dec 19 73: EMBASE_1974-2002/Dec W3 20: Dialog Global Reporter_1997-2002/Dec 19 16: Gale Group PROMT(R)_1990-2002/Dec 19 9: Business & Industry(R)_Jul/1994-2002/Dec 18 5: Biosis Previews(R)_1969-2002/Dec W3

N9

103

Your SELECT statement is:

Items File

222222

130 180 Items File

249

Executing TD786 removal, customized scheduling. See HELP ALERT *File 73: Alert feature enhanced for multiple files, duplicates SYSTEM:OS - DIALOG OneSearch removal, customized scheduling. See HELP ALERT *File 5: Alert feature enhanced for multiple files, duplicates Temp SearchSave "TD786" stored File 73:EMBASE 1974-2002/Dec W3 File 5:Biosis Previews(R) 1969-2002/Dec W3 30 files have one or more items; file list includes 247 files \$14.28 Estimated cost this search \$21.33 Estimated total session cost 9.064 DialUnits \$13.20 Estimated cost File411 \$1.08 TELNET Set Items Description 19dec02 14:59:08 User208669 Session D2176.3 Examined 200 files Examined 150 files Examined 100 files (c) 2002 BIOSIS (c) 2002 Elsevier Science B.V. \$13.20 7.543 DialUnits File411 68461 VERTICAL 76 349: PCT FULLTEXT_1979-2002/UB=20021212,UT=20021205 613: PR Newswire_1999-2002/Dec 19 484: Periodical Abs Plustext_1986-2002/Dec W3 357: Derwent Biotech Res. __1982-2002/Dec W3 649: Gale Group Newswire ASAP(TM)_2002/Dec 12 636: Gale Group Newsletter DB(TM)_1987-2002/Dec 19 442: AMA Journals_1982-2002/Jan B1 440: Current Contents Search(R)_1990-2002/Dec 19 399: CA SEARCH(R)_1967-2002/UD=13725 340: CLAIMS(R)/US Patent_1950-02/Dec 12 654: US PAT.FULL._1976-2002/Dec 17 621: Gale Group New Prod. Annou. (R)_1985-2002/Dec 18 286: Biocommerce Abs. & Dir_1981-2002/Nov B2 348: EUROPEAN PATENTS_1978-2002/Dec W02 319: Chem Bus NewsBase_1984-2002/Dec 19 764: BCC Market Research_1989-2002/Nov 763: Freedonia Market Res._1990-2002/Nov \mathbf{S} ? ds ABSTRACT: Purpose: Several methods are available for the diagnosis of acute DOCUMENT TYPE: Article ISSN: 0161-6420 JOURNAL: Ophthalmology 104 (8):p1294-1299 Aug., 1997 AUTHOR ADDRESS: (a)Dep. Ophthalmol., Yokohama City Univ. Sch. Med. AUTHOR: Uchio Eiichi(a); Aoki Koki; Saitoh Waka; Itoh Norihiko; Ohno Rapid diagnosis of adenoviral conjunctivitis on conjunctival swabs by DIALOG(R)File 5:Biosis Previews(R) ? t s4/7/24 25 27 40 42 46 ...completed examining records ...examined 50 records (50) ?s (VERTICAL OR LATERAL)(W)FLOW AND VIRUS LANGUAGE: English RECORD TYPE: Abstract (c) 2002 BIOSIS. All rts. reserv. 4/7/24 (Item 24 from file: 5) well-equipped laboratory. A new method, immunochromatography (IC), for conjunctivitis, all of which are time-consuming or require the use of a rapid tests to detect Ad antigen, IC and enzyme immunoassay (EIA), were detecting the presence of adenovirus (Ad) has been developed. Two direct 11392310 BIOSIS NO.: 199800173642 Kanazawa, Yokohama, 236 Kanagawa**Japan 10-minute immunochromatography. Items Description 823245 VIRUS 728171 DIAGNOSTIC 823245 VIRUS 626724 FLOW 823245 VIRUS 626724 FLOW 68461 VERTICAL 728171 DIAGNOSTIC 199790 LATERAL 199790 LATERAL 689 IMMUNOCHROMATOG? 542 (VERTICAL OR LATERAL)(W)FLOW 47 RD (unique items) 4 (VERTICAL OR LATERAL)(W)FLOW AND DIAGNOSTIC AND VIRUS 542 (VERTICAL OR LATERAL)(W)FLOW 62 DIAGNOSTIC AND IMMUNOCHROMATOG? AND VIRUS 4 (VERTICAL OR LATERAL)(W)FLOW AND DIAGNOSTIC AND VIRUS 13 (VERTICAL OR LATERAL)(W)FLOW AND VIRUS (VERTICAL OR LATERAL)(W)FLOW AND VIRUS

? b 5,73;exs

rapid and easier test compared with EIA, and it has high specificity of the presence of Ad took an average of 10 minutes by IC compared with different serotypes (except Ad7) to those using EIA. Visual determination Ad8 in 67%; and Ad37 in 59%, showing similar positivity rates for whereas those of EIA were 50.5% and 100%, respectively. By IC, on a paper disc. Results: In 95 adenoviral DNA-positive samples by PCR, procedure that detects the presence of adenoviral antigen by sandwich EIA proven by positive virus DNA on polymerase chain reaction (PCR), 35 patients with conjunctivitis (95 samples of adenoviral conjunctivitis complexity. Methods: The study materials consisted of 130 swabs from adenoviral conjunctivitis. physicians as a useful tool for early diagnosis and prevention of Detection of Ad antigen by this simple and rapid method will serve PCR-positive Ad type 3 was recognized in 31%; Ad4 in 100%; Ad7 in 60% the sensitivity and specificity of IC were 54.7% and 97.1%, respectively, samples of nonadenoviral conjunctivitis proven by PCR). IC is a one-step 70 minutes by EIA. Conclusions: These results indicate that IC is a more

(Item 25 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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11313942 BIOSIS NO.: 199800095274

The use of immunochromatography test cards in the diagnosis of hepatitis B surface antigen among pregnant women in West Africa.

AUTHOR: Torlesse H(a); Wurie I M; Hodges M

AUTHOR ADDRESS: (a)Div. Environmental and Evolutionary Biol., Graham Kerr Build., Univ. Glasgow, Glasgow G12 8QQ**UK

ISSN: 0967-4845 JOURNAL: British Journal of Biomedical Science 54 (4):p256-259 Dec., 1997

DOCUMENT TYPE: Article

LANGUAGE: English

RECORD TYPE: Abstract

ABSTRACT: Despite the development of successful vaccines against hepatitis (HBeAg) in the study population (n=179) was 11.3% and 3.9%, respectively (RPHA) method. The prevalence of HBsAg and hepatitis B envelope antigen (HBsAg) is examined for use among an ante-natal population in Sierra immunochromatography (IC) test card for hepatitis B surface antigen readily available and affordable. The use of a newly introduced sectors of the population could benefit from HBV screening if it was implement an immunization or mass screening programme. However, certain geographical region where HBV infection is highly endemic, has yet to B virus (HBV), Sierra Leone, like many countries lying within the The speed, sensitivity and simplicity of the IC method make it Leone, and compared with the existing reverse passive hemagglutination

attractive, particularly for individual use and where laboratory

facilities are minimal, but the cost of the test is comparatively high

use in the private sector where the turnover of patients is small, as a the Expanded Programme on Immunization (EPI), the IC test card may be of facility and HBV vaccination of their newborn babies. rapid means of detecting HBsAg in pregnant women who can afford both this In the African setting, pending the introduction of HBV vaccination into

4/7/27 (Item 27 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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11012973 BIOSIS NO.: 199799634118

Simple devices for sensitive and rapid detection of HBs-Ag and HBs-Ab by immunochromatography using enzyme.

AUTHOR: Yamauchi S; Fujiwara Y; Hasegawa A; Kogaki H; Masuda M; Okamura C; Saruta H; Ashihara H

AUTHOR ADDRESS: Research Lab., Fujirebio Inc., Tokyo**Japan

JOURNAL: Clinical Chemistry 43 (6 PART 2):pS242 1997

Clinical Chemistry Atlanta, Georgia, USA July 20-24, 1997 CONFERENCE/MEETING: 49th Annual Meeting of the American Association for

ISSN: 0009-9147

RECORD TYPE: Citation

LANGUAGE: English

4/7/40 (Item 9 from file: 73)

DIALOG(R)File 73:EMBASE

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10557612 EMBASE No: 2000020582

immunochromatography Rapid diagnosis of adenovirus respiratory tract infections by

Nakazawa T. Ouchi K.; Hasegawa K.; Nonaka Y.; Matsushima H.; Komura H.; Maki T.;

3-4-1 Kifune-cho, Simonoseki, Yamaguchi 751-8502 Japan K. Ouchi, Department of Pediatrics, Saiseikai Shimonoseki General Hosp.,

AUTHOR EMAIL: outi00@tip.ne.jp

1999, 5/4 (220-222) Journal of Infection and Chemotherapy (J. INFECT. CHEMOTHER.) (Japan)

CODEN: JICHF ISSN: 1341-321X

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 9

upper respiratory tract infection, the sensitivity and specificity of the specimens from 63 febrile pediatric patients with suspected adenovira available enzyme immunoassay (EIA) test kits. For tonsilopharyngeal specimens. According to five clinically common serotypes of purified IC test against vital isolation by cell culture was 88.5% (23/26) and 100% adenovirus tested, the IC test was more sensitive than two commercially for adenovirus was evaluated with purified adenovirus and clinical A one-step diagnostic test based on an immunochromatographic (IC) assay

than EIA test kits, is very useful in the rapid diagnosis of adenoviral upper respiratory tract infection of pediatric patients. (37/37), respectively. The IC test, which is quicker and easier to perform

DIALOG(R)File 73:EMBASE 4/7/42 (Item 11 from file: 73)

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07696806 EMBASE No: 1999178359

tract infections: Comparison with virus isolation in tissue culture Immunochromatography test for rapid diagnosis of adenovirus respiratory Tsutsumi H.; Ouchi K.; Ohsaki M.; Yamanaka T.; Kuniya Y.; Takeuchi Y.;

Nakai C.; Meguro H.; Chiba S.

Medicine, Chuoku S-1, W-16, Sapporo 060-8543 Japan H. Tsutsumi, Department of Pediatrics, Sapporo Med. Univ. Sch. of

AUTHOR EMAIL: tsutsumi@sapmed.ac.jp

1999, 37/6 (2007-2009) Journal of Clinical Microbiology (J. CLIN. MICROBIOL.) (United States)

CODEN: JCMID ISSN: 0095-1137

DOCUMENT TYPE: Journal; Article

NUMBER OF REFERENCES: 11 LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

comparison with the sensitivity and specificity of virus isolation. Of 169 adenovirus antigen immunochromatography (IC) test were determined by The sensitivity and the specificity of a new commercial rapid 10-min

first examination. an outpatient clinic, with the result being available during a patient's infections. The test is sufficiently rapid to be used at the bedside or in almost equal sensitivities. This test is not only rapid and easy to perform cell culture. The test detected adenovirus serotypes 1, 2, 3, 5, and 7 with specific (identifying 74 of 74 specimens [100%]) when it was compared with sensitive (detecting 69 of these 95 infections [72.6%]) and completely pharyngeal swabs from children with suspected adenovirus respiratory tract but also sensitive and specific for adenovirus respiratory tract infections, 95 (56%) were culture positive for adenovirus. The IC test was

4/7/46 (Item 15 from file: 73)

DIALOG(R)File 73:EMBASE

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06894636 EMBASE No: 1997179016

conjunctivitis Immunochromatography as a new rapid diagnostic method for adenoviral

Saitoh W.; Uchio E.; Aoki K.; Itoh N.; Ohno S.

(Japan) 1997, 51/5 (1073-1076) Japanese Journal of Clinical Ophthalmology (JPN. J. CLIN. OPHTHALMOL.) W. Saitoh, 3-9 Fukuura, Kanazawa-ku, Yokohama-shi 236 Japan

CODEN: RIGAA ISSN: 0370-5579 DOCUMENT TYPE: Journal; Article

> **NUMBER OF REFERENCES: 5** LANGUAGE: JAPANESE SUMMARY LANGUAGE: ENGLISH; JAPANESE

were similar regarding sensitivity and specificity. Both methods showed obtained from patients with suspected viral conjunctivitis. Both methods adenovirus took an average of 10 minutes by IC and 70 minutes by ELISA similar positive rate for different serotypes. IC required no special conjunctival scrapings in the physician's office. The scrapings were These features show that IC is a more rapid and easy test than ELISA. laboratory skill or instruments. Visual determination of the presence of assay (ELISA) in detecting the presence of adenovirus antigen in 100 We evaluated immunochromatography (IC) and enzyme-linked immunosorbent

19dec02 15:10:17 User208669 Session D2176.4

\$3.28 0.585 DialUnits File5

\$0.00 39 Type(s) in Format 6

\$5.25 3 Type(s) in Format 7

\$5.25 42 Types

\$8.53 Estimated cost File5

\$4.94 0.549 DialUnits File73

\$0.00 25 Type(s) in Format 6

\$7.50 3 Type(s) in Format 7

\$7.50 28 Types

\$12.44 Estimated cost File73

OneSearch, 2 files, 1.134 DialUnits FileOS

\$2.60 TELNET

\$23.57 Estimated cost this search

\$44.90 Estimated total session cost 10.198 DialUnits

Logoff: level 02.11.17 D 15:10:17